Price 15 Cents*

Product Guide for RCA Power Tubes

tabulated data

RADIO CORPORATION OF AMERICA

ELECTRONIC COMPONENTS AND DEVICES, HARRISON, N.J.

*Suggested Price

PWR-506A

RCA Field Sales & Engineering personnel who service the sales and promotion of RCA Industrial Tube Products to Equipment Manufacturers and Distributor Markets are available at the following office locations:

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(202) 337-8500

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(404) 524-7703

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Cleveland, Ohio, 44115
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Merchandise Mart, Rm. 2000
Chicago, Ill., 60654
(312) 467-5900

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Kansas City, Mo., 64114
(816) 363-6462

7901 Carpenter Freeway
Dallas, Texas, 75247
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RCA - 714 New Center Bldg.
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RCA - 501 No. LaSalle St.
Indianapolis, Indiana, 46201
(317) 636-5321

RCA - 2785 No. Speer Blvd.
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Denver, Colorado, 80211
(303) 433-0432

RCA - 420 Taylor Street
Room 316
San Francisco, California
(415) 673-8027

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(201) 485-3900

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(213) 461-9171

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(415) 948-8996

INTERNATIONAL SALES

RCA International Division
Clark, New Jersey, 07066
(201) 382-1000

Technical Information is available from the above office locations, your RCA Tube Distributor, or by writing to: RCA Commercial Engineering, Harrison, N.J., 07029.

FOREWORD

This guide gives tabulated data on approximately 200 commercial types of power tubes to meet your communications or industrial needs. For further information on developmental types or possible variants of existing types, contact your RCA field representative or nearest District Sales Office.

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VACUUM POWER TUBES FOR CW APPLICATIONS

RCA TYPE	DESCRIPTION	COOLING	FILAMENT (F) OR HEATER		MAX. DIMENSIONS INCHES		MAX. ENVELOPE TEMPERATURES °C		DIMENSIONAL OUTLINE NO. (SEE PAGES 26 TO 31)	TERM. DIAG. NO. (SEE PAGES 24 TO 25)
			VOLTS	AMP.	LENGTH	DIAM. OR RAD. (R)	TERM. OR RAD.	BULB, OR PLATE CORE		
2C39A	Triode	Forced-Air	6.3	1	2-3/4	1-17/64	175	175	78	8
2C39WA	Triode	Forced-Air	6.0	1.0	2.701	1.264	200	200	78	8
2C40	Lighthouse Triode	Natural	6.3	0.75	2-9/16	1.312	175	175	1	2
2C40A	Lighthouse Triode	Natural	6.3	0.75	2-9/16	1.312	175	175	1	2
2C43	Lighthouse Triode	Natural	6.3	0.9	2.6875	1.312	200	200	2	2
2E24	Quick-Heating Beam Power Tube	Natural	6.3F	0.65	3-21/32	1-5/16		210	4	5
2E26	Beam Power Tube	Natural	6.3	0.8	3-21/32	1-5/16		210	4	6
4-125A/4D21	Beam Power Tube	Forced-Air	5F	6.5	5-11/16	2-7/8	170	170	20	24
4-250A/5D22	Beam Power Tube	Forced-Air	5F	14.5	6-3/8	3-9/16	170	170	32	24
4E27A/5-125B	Beam Power Tube	Natural	5F	7.5	6-3/16	2-3/4	225	225	26	25
4X500A	Beam Power Tube	Forced-Air	5F	12.2 to 13.7	4-3/4	2-5/8	150	150	74	30
8D21	Twin Tetrode	Water	3.2F	125	12-9/32	5-3/4	150	150	80	34
9C21	Triode	Water	19.5F	415	24-1/2	9-1/2	165	180	92	43
9C22	Triode	Forced-Air	19.5F	415	25	17	165	180	94	43
9C25	Triode	Forced-Air	6F	285	17-3/8	14-1/4	210 165	180	See Technical Data Sheets	
207	Triode	Water	22F	52	20-1/4[a]	6-15/32R		Note[b]	87	39
801A	Triode	Natural	7.5F	1.25	5-3/8	2-1/16			19	1
802	Pentode	Natural	6.3	0.9	5-3/4	2-1/16			22	3
803	Pentode	Natural	10	5	9-1/4	2-9/16			57	16
805	Triode	Natural	10F	3.25	8-1/2	2-5/16			52	21
807	Beam Power Tube	Natural	6.3	0.9	5-3/4	2-1/16			22	11
809	Triode	Natural	6.3F	2.5	6-9/16	2-7/16			36	14
810	Triode	Natural	10F	4.5	8-3/4	2-1/4R			53	26
811A	Triode	Natural	6.3F	4	6-15/32	2-7/16			See Technical Data Sheets	
812A	Triode	Natural	6.3F	4	6-15/32	2-7/16			See Technical Data Sheets	
813	Beam Power Tube	Natural	10F	5	7-1/2	2-9/16			45	22
814	Beam Power Tube	Natural	10F	3.25	7-11/16	2-1/16			47	16
815	Twin Beam Power Tube	Natural	6.3 12.6	1.6 0.8	4-9/16	1-3/16			9	13
827R	Beam Power Tube	Forced-Air	7.5F	25	6-3/8R	4-11/16	175	150	85	29

a Excluding flexible leads
b Outlet water temperature. 70°C max.
c Per section
d Metal-surface temperature
e Ceramic-surface temperature
f Class AB. Af Power Amplifier
g Intermittent Commercial and Amateur Service (ICAS) only
h Radiator temperature

CLASS C TELEGRAPHY SERVICE (CCS) UNLESS OTHERWISE SPECIFIED UNDER MAXIMUM PLATE VOLTS													
	MAXIMUM RATINGS								TYPICAL OPERATION			ADDITIONAL AVAILABLE DATA	RCA TYPE
FREQ. FOR FULL INPUT MC	PLATE VOLTS	GRID-NO. 2 VOLTS	GRID-NO. 1 VOLTS	PLATE MA	GRID-NO. 2 INPUT WATTS	GRID-NO. 1 CURRENT IN MA OR INPUT (W) IN WATTS	PLATE DISSIPATION WATTS	AMPLIFICATION OR MU FACTOR	FREQUENCY MC	DRIVER OR DRIVING (T) POWER WATTS	POWER OUTPUT WATTS		
2500	1000		-150	125		50	100	100	For Existing Equipment			No	2C39A
2500	For data, refer to MIL-E-1/778E (Navy) Specification											No	2C39WA
3370	500		-50	25		8	6.5	For Existing Equipment				No	2C40
3370	500		-50	25		8	6.5	For Existing Equipment				No	2C40A
1500	500			40			12	For Existing Equipment				No	2C43
125	500	200	-175	75	2.5	3.5	10	7.5	125	0.2T	20	No	2E24
125	500	200	-175	75	2.5	3.5	10	6.5	125	0.15T	20	No	2E26
120	3000	400	-500	225	20	5W	125	For Existing Equipment				No	4-125A/4D21
75	4000	600	-500	350	35	10W	250	For Existing Equipment				No	4-250A/5D22
75	4000	750	-500	200	20	5W	125	For Existing Equipment				No	4E127A/5-125B
120	4000	500	-500	350	30	10W	500	For Existing Equipment				No	4X500A
300	6000	1000	-1000	2000	400	50W	6000	5	300	500T	6500	No	8D21
15	17,000		-2000	9000		1500	40,000	40	15	1800T	100,000	No	9C21
5	17,000		-2000	8000		1500	20,000	41	5	1450T	65,000	No	9C22
30	11,500		-2000	4000		650	17,500	32	30	575T	29,500	Yes	9C25
1.6	15,000		-3000	2000		200	10,000	20	1.6	235T	15,000	No	207
60	600		-200	70		15	20	8	60	4T	25	No	801A
30	500	250	-200	60	6	7.5	10		30	0.25T	16	No	802
20	2000	600	-500	175	30	50	125		20	2T	210	No	803
30	1500		-500	210		70	125		30	8.5T	215	No	805
60	600	300	-200	100	3.5	5	25	8	60	0.3	40	No	807
60	750		-200	100		35	25	50	60	2.5T	55	No	809
30	2000		-500	250		70	125	36	30	12T	375	No	810
30	1250		-200	175		50	45	160	30	5.7T	135	Yes	811A
30	1250		-200	175		35	45	29	30	5.4T	130	Yes	812A
30	2000	400	-300	180	22	25	100	8.5	30	1.9T	275	No	813
30	1250	400	-300	150	10	15	50		30	1.5T	130	No	814
125	400	225	-175	150	4.5	7	20	6.5	125	0.23T	44	No	815
110	3500	1000	-500	500	150	150	800	16	110	50T	1050	No	827R

j Rf Power Amplifier. Class B TV Service
k Filament temperature
m Measured on base end of plate surface at junction with fins
n Measured at plate seal
p Linear Rf Power Amplifier service. plate current at peak envelope conditions
q Maximum plate dissipation is a function of the maximum plate input. efficiency of the class of service. and the effectiveness of the cooling system

RCA TYPE	DESCRIPTION	COOLING	FILAMENT (F) OR HEATER		MAX. DIMENSIONS INCHES		MAX. ENVELOPE TEMPERATURES °C		DIMENSIONAL OUTLINE NO. (SEE PAGES 26 TO 31)	TERM. DIAG. NO. (SEE PAGES 24 TO 25)
			VOLTS	AMP.	LENGTH	DIAM. OR RAD. (R)	TERM. OR RAD.	BULB, OR PLATE CORE		
828	Beam Power Tube	Natural	10F	3.25	7-11/16	2-1/16			47	16
829B	Twin Beam Power Tube	Forced-Air	6.3 / 12.6	2.25 / 1.125	4-5/16	2-3/8		235	5	7
		Natural	6.3 / 12.6	2.25 / 1.125	4-5/16	2-3/8		265		
830B	Triode	Natural	10F	2	6-11/16	2-1/16			38	14
832A	Twin Beam Power Tube	Natural	6.3 / 12.6	1.6 / 0.8	3-5/16	2-5/16		200	3	7
833A	Triode	Natural	10F	10	8-13/16	4-19/32	145	145	See Technical Data Sheets	
		Forced-Air	10F	10	8-13/16	4-19/32				
834	Triode	Natural	7.5F	3.1	6-11/16	2-11/16			37	15
837	Pentode	Natural	12.6	0.7	5-3/4	2-1/16			22	3
845	Triode	Natural	10F	3.25	7-7/8	2-5/16			49	17
860	Tetrode	Natural	10F	3.25	8-3/4[a]	4-1/4R			56	19
880	Triode	Water	12.6F	320	11-3/8	7	150	150	90	42
889A	Triode	Water	11F	125	10-11/16	3-5/8			76	35
889RA	Triode	Forced-Air	11F	125	11-7/8	5-15/32R	180	150	71A	35
891	Triode	Water	22F	60	20-7/8	6-15/32R		150	86	36
891R	Triode	Forced-Air	22F	60	22	6-15/32R	180	150	90A	37
892	Triode	Water	22F	60	20-7/8	6-15/32R		150	86	36
892R	Triode	Forced-Air	22F	60	22	6-15/32R	180	150	90A	37
1624	Beam Power Tube	Natural	2.5F	2	5-3/4	2-1/16			22	10
1625	Beam Power Tube	Natural	12.6	0.45	5-3/4	2-1/16			22	12
2029	Beam Power Tube	Liquid	2-Section		8.25	11.38	100[d]	150[e]	See Technical Data Sheets	
			1.35F[c]	1000[c]						
4604	Quick-Heating Beam Power Tube	Natural	6.3F	0.65	3-13/16	1-21/22		220	See Technical Data Sheets	
4615	Ruggedized Cermolox Tube	Forced-Air	6.3	3.2	1.930	1.327	250	250	See Technical Data Sheets	
4618	Beam Power Tube	Forced-Air	5.5	17.3	3.34	3.75	250	250	See Technical Data Sheets	
4624	Beam Power Tube	Forced-Air	6.3	3.5	2.19	2.26	250	250	See Technical Data Sheets	
5556	Triode	Natural	4.5F	1.1	4-1/2	1-5/8			14	1
5671	Triode	Forced-Air	11F	285	25	17	180[h] 165	180	See Technical Data Sheets	
5713	Triode	Forced-Air	3.3	11.5	4-7/8	2-1/16	140	180	72	8
5762/7C24	Triode	Forced-Air	12.6F	29	7-1/8[a]	4-11/16	180	180	See Technical Data Sheets	
5770	Triode	Water	11F	285	24-1/2	9-1/2	165	180	See Technical Data Sheets	
5771	Triode	Water	7.5F	170	11-5/16	7	165	180	See Technical Data Sheets	

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CLASS C TELEGRAPHY SERVICE (CCS) UNLESS OTHERWISE SPECIFIED UNDER MAXIMUM PLATE VOLTS													
	MAXIMUM RATINGS								TYPICAL OPERATION			ADDITIONAL AVAILABLE DATA	RCA TYPE
FREQ. FOR FULL INPUT MC	PLATE VOLTS	GRID-NO. 2 VOLTS	GRID-NO. 1 VOLTS	PLATE MA	GRID-NO. 2 INPUT WATTS	GRID-NO. 1 CURRENT IN MA OR INPUT (W) IN WATTS	PLATE DISSIPATION WATTS	AMPLIFICATION OR MU FACTOR	FREQUENCY MC	DRIVER OR DRIVING (T) POWER WATTS	POWER OUTPUT WATTS		
30	1250	400	-300	160	16	15	70		30	2.1T	150	No	828
200	750	225	-175	240	7	15	40	9	200	0.4T	90	No	829B
	750	225	-175	240	6	15	30	9	200	0.3T	70		
15	1000		-300	150		30	60	25	15	7T	90	No	830B
200	750	250	-175	90	5	6	15	6.5	200	0.19T	26	No	832A
30	3000		-500	500		100	300	35	30	20T	1000	Yes	833A
20	4000		-500	500		100	400	35	20	26T	1440		
100	1250		-400	100		20	50	10.5	100	4.5T	75	No	834
20	500	200	-200	80	8	8	12		20	0.4T	22	No	837
	1250[f]		-400	120			150	5.3			115	No	845
30	3000	500	-800	150	10	40	100		30	7T	165	No	860
1.5	15,000		-1600	4500		1000	20,000	20	1.5	880T	50,000	No	880
50	8500		-1000	2000		250	5000	21	50	400T	10,000	No	889A
40	8500		-1000	2000		250	5000	21	40	400T	10,000	No	889RA
1.6	12,000		-3000	2000		150	6000	8.5	1.6	375T	10,000	No	891
1.6	10,000		-3000	2000		150	4000	8.5	1.6	375T	10,000	No	891R
1.6	15,000		-3000	2000		400	10,000	50	1.6	565T	14,000	No	892
1.6	12,500		-3000	2000		400	4000	50	1.6	495T	10,000	No	892R
60	600	300	-200	90	3.5	5	25		60	0.43T	35	No	1624
60	600	300	-200	100	3.5	5	25	8	60	0.3T	40	No	1625
1000	9000	1100	-250	7000	600	500	30,000	7.5	400	300	25,000	Yes	2029
60	750[g]	250	-150	150	3	4	25	4	175	4.5	30	Yes	4604
1215	1000	300	-100	180	4.5	30	115	18	1215	5	40	Yes	4615
1215	2500	1000	-300	1000	50	200	1500	17	600	75	1350	Yes	4618
	2200[j]	400	-100	375	8	100	400	12	890	30	300	Yes	4624
6	350		-150	40		10	10	For Existing Equipment				No	5556
	15,000		-2000	8000		1000	25,000	40	1.6	2040T	70,000	No	5671
220	1500		-250	300		50	250	25	220	8T	290	No	5713
220	6200		-1000	1400		300	4000	29	30	1225T	7000	Yes	5762/7C24
20	17,000		-2000	9000		1250	50,000	40	20	2300T	105,000	Yes	5770
1.6	15,000		-1600	6000		800	22,500	20	1.6	1160T	53,000	Yes	5771

j Rf Power Amplifier, Class B TV Service
k Filament temperature
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q Maximum plate dissipation is a function of the maximum plate input, efficiency of the class of service, and the effectiveness of the cooling system

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			VOLTS	AMPS.	LENGTH	DIAM. OR RAD. (R)	TERM. OR RAD.	BULB, OR PLATE CORE		
5786	Triode	Forced-Air	11F	12.5	9-5/8	2.895	165[k] 220	180	58	27
6146	Beam Power Tube	Natural	6.3	1.25	3-13/16	1-23/32		220	7	6
6146A	Beam Power Tube	Natural	6.3	1.25	3-13/16	1-21/32		220	8	6
6146B/8298A	Beam Power Tube	Natural	6.3	1.125	3-13/16	1-21/32		260	See Technical Data Sheets	
6146W/7212	Ruggedized Beam Power Tube	Natural	6.3	1.25	3-13/16	1-21/32		220	See Technical Data Sheets	
6155	Beam Power Tube	Forced-Air	5F	6.5	5-5/64	2-7/16	180	220	17	24
6156	Beam Power Tube	Forced-Air	5F	14.1	5-31/32	3-37/64	180	220	23	28
6159	Beam Power Tube	Natural	26.5	0.3	3-13/16	1-23/32		220	7	6
6159B	Beam Power Tube	Natural	26.5	0.3	3-13/16	1-21/32		260	See Technical Data Sheets	
6159W/7357	Ruggedized Beam Power Tube	Natural	26.5	0.3	3-13/16	1-21/32		220	See Technical Data Sheets	
6161	Triode	Forced-Air	6.3	3.4	3-13/32	1.76	150	180	See Technical Data Sheets	
6166	Beam Power Tube	Forced-Air	5F	168	11.63	6.38	180	180	See Technical Data Sheets	
6166A/7007	Beam Power Tube	Forced-Air	5F	174	11.50	6.38	180	180	See Technical Data Sheets	
6181	Beam Power Tube	Forced-Air	120 Max.	1.6	7-1/4	5-1/32	180		79	9
6448	Beam Power Tube	Water	2-Section 1.35F[c]	2-Section 1000[c]	8.02	11.38	150	150[e]	See Technical Data Sheets	
6524	Twin Beam Power Tube	Natural	6.3	1.25	3-9/16	1-11/16		210	See Technical Data Sheets	
6806	Beam Power Tube	Water	2-Section 1.35[c]	2-Section 1000[c]	8.02	11.38	150	150	See Technical Data Sheets	
6816	Cermolox Tube	Forced-Air	6.3	2.1	1.930	1.265	250	250	See Technical Data Sheets	
6850	Twin Beam Power Tube	Natural	12.6	0.625	3-9/16	1-11/16		210	See Technical Data Sheets	
6883	Beam Power Tube	Natural	12.6	0.625	3-13/16	1-21/32		220	8	6
6883B/8032A/ 8552	Beam Power Tube	Natural	12.6	0.562	3-13/16	1-21/32		260	See Technical Data Sheets	
6884	Cermolox Tube	Forced-Air	26.5	0.52	1.930	1.265	250	250	See Technical Data Sheets	
6893	Beam Power Tube	Natural	12.6	0.4	3-21/32	1-5/16		210	4	6
6897	Lighthouse Triode	Forced-Air	6.3	1.03	2-3/4	1-17/64	250	250	77	4
6949	Shielded-Grid Beam Triode	Water	7.3 to 7.8F	1120 to 1160	40	10.06	150	150	See Technical Data Sheets	
7034/4X150A	Beam Power Tube	Forced-Air	6	2.6	2.404	1.640	175	200	See Technical Data Sheets	
7035/4X150D	Beam Power Tube	Forced-Air	26.5	0.58	2.404	1.640	175	250[m] 200[n]	See Technical Data Sheets	
7094	Beam Power Tube	Forced-Air	6.3	2.85	5	2.56		250	See Technical Data Sheets	
7203/4CX250B	Beam Power Tube	Forced-Air	6	2.6	2.464	1.640	250	250	See Technical Data Sheets	
7204/4CX250F	Beam Power Tube	Forced-Air	26.5	0.58	2.464	1.640	250	250	See Technical Data Sheets	

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CLASS C TELEGRAPHY SERVICE (CCS) UNLESS OTHERWISE SPECIFIED UNDER MAXIMUM PLATE VOLTS													
	MAXIMUM RATINGS								TYPICAL OPERATION				
FREQ. FOR FULL INPUT MC	PLATE VOLTS	GRID-NO. 2 VOLTS	GRID-NO. 1 VOLTS	PLATE MA	GRID-NO. 2 INPUT WATTS	GRID-NO. 1 CURRENT IN MA OR INPUT (W) IN WATTS	PLATE DISSI-PATION WATTS	AMPLI-FICATION OR MU FACTOR	FRE-QUENCY MC	DRIVER OR DRIV-ING (T) POWER WATTS	POWER OUTPUT WATTS	ADDI-TIONAL AVAIL-ABLE DATA	RCA TYPE
160	3000		-500	500		150	600	32	160	36T	1000	No	5786
60	600	250	-150	140	3	3.5	20	4.5	60	0.2T	52	No	6146
60	600	250	-150	140	3	3.5	25	4.5		0.2T	52	No	6146A
60	600	250	-150	175	3	3.5	27	4.5	60	0.3T	63	Yes	6146B/8298A
60	600	250	-150	140	3	3.5	20	4.5	60	0.2T	52	Yes	6146W/7212
120	3000	400	-500	225	20	15	125	For Existing Equipment				No	6155
75	4000	600	-500	350	35	20	250	For Existing Equipment				No	6156
60	600	250	-150	140	3	3.5	20	4.5	60	0.2T	52	No	6159
60	600	250	-150	175	3	3.5	27	4.5	60	0.3T	63	Yes	6159B
60	600	250	-150	140	3	3.5	20	4.5	60	0.2T	52	Yes	6159W/7357
900	1600		-300	250		75	250	25	900	80	180	Yes	6161
220	6900	2000	-1000	2750	400	600	10,000	10	216	750	9000	Yes	6166
220	7500	2000	-1000	3000	400	600	12,000	10	216	750	10,000	Yes	6166A/7007
900	2000	500	-300	1250	40	200	2000	7	900	150	600	No	6181
1000	7000	1000	-300	6500	600	500	26,000	6	900	800	11,000	Yes	6448
100	500	300	-200	150	3	4	20	8.5	100	0.2T	46	Yes	6524
1000	9000	1100	-250	7000	750	500	35,000	8	900	750	13,500	Yes	6806
1215	1000	300	-100	180	4.5	30	115	18	1215	5	40	Yes	6816
100	500	300	-200	150	3	4	20	8.5	100	0.2T	46	Yes	6850
60	600	250	-150	140	3	3.5	20	4.5	60	0.2	52	No	6883
60	600	250	-150	175	3	3.5	27	4.5	60		85	Yes	6883B/8032A/8552
1215	1000	300	-100	180	4.5	30	115	18	1215	5	40	Yes	6884
125	500	200	-175	75	2.5	3.5	10	6.5	125	0.15	20	No	6893
2500	1000		-150			50W	100	For Existing Equipment				No	6897
75	20,000		-1000	50,000		1500	400,000	60	0.425	2000T	500,000	Yes	6949
150	2000	300	-250	250	12	2W	250	5	150	2.5	370	Yes	7034/4X150A
150	2000	300	-250	250	12	2W	250	5	150	2.5	370	Yes	7035/4X150D
60	1250	400	-300	340	20	25	100	7	60	4	255	Yes	7094
500	2000	300	-250	250	12	2W	250	5.0	500	18	250	Yes	7203/4CX250B
500	2000	300	-250	250	12	2	250	5.0	500	18	250	Yes	7204/4CX250F

j Rf Power Amplifier. Class B TV Service
k Filament temperature
m Measured on base end of plate surface at junction with fins
n Measured at plate seal
p Linear Rf Power Amplifier service. plate current at peak envelope conditions
q Maximum plate dissipation is a function of the maximum plate input. efficiency of the class of service. and the effectiveness of the cooling system

RCA TYPE	DESCRIPTION	COOLING	FILAMENT (F) OR HEATER		MAX. DIMENSIONS INCHES		MAX. ENVELOPE TEMPERATURES °C		DIMENSIONAL OUTLINE NO. (SEE PAGES 26 TO 31)	TERM. DIAG. NO. (SEE PAGES 24 TO 25)
			VOLTS	AMP.	LENGTH	DIAM. OR RAD. (R)	TERM. OR RAD.	BULB, OR PLATE CORE		
7213	Cermolox Tube	Forced-Air	5.5	17.3	3.34	3.75	250	250	See Technical Data Sheets	
7271	Beam Power Tube	Forced-Air	13.5	1.25	4.73	2.06		250		18
7457	Ruggedized Cermolox Tube	Forced-Air	6.3	3.2	1.930	1.265	250	250	See Technical Data Sheets	
7580	Beam Power Tube	Forced-Air	6	2.6	2.464	1.640	250	250	See Technical Data Sheets	
7580W/ 4CX250R	Ruggedized Beam Power Tube	Forced-Air	For data refer to MIL-E-1/1385 B. See commercially-equivalent type, RCA-7580.							
7609	Ruggedized Beam Power Tube	Forced-Air	For data refer to MIL-E-1/1331 (Navy). See commercially-equivalent type, RCA-7035/4X150F.							
7650	Cermolox Tube	Forced-Air	6.3	7.5	2.40	2.09	250	250	See Technical Data Sheets	
7801	Cermolox Tube	Conduction	12.6	0.5	1.195	0.740	250	250	See Technical Data Sheets	
7842	Cermolox Tube	Conduction	6.3	3.2	1.930	1.119	250	250	See Technical Data Sheets	
7843	Cermolox Tube	Conduction	26.5	0.52	1.930	1.119	250	250	See Technical Data Sheets	
7844	Cermolox Tube	Conduction	6.3	2.1	1.930	1.119	250	250	See Technical Data Sheets	
7870	Cermolox Tube	Conduction	6.3	1	1.195	0.740	250	250	See Technical Data Sheets	
8000	Triode	Natural	10F	4.5	8-3/4	2-1/4R			53	26
8005	Triode	Natural	10F	3.25	6-11/16	2-7/16			39	20
8032	Beam Power Tube	Natural	13.5	0.585	3-13/16	1-21/32		220	8	6
8072	Beam Power Tube	Conduction	12 to 15	1.3 1.35V	2.26	1.44	250	250	See Technical Data Sheets	
8121	Beam Power Tube	Forced-Air	13.5	1.3	2.20	1.48	250	250	See Technical Data Sheets	
8122	Beam Power Tube	Forced-Air	13.5	1.3	2.26	1.64	250	250	See Technical Data Sheets	
8165/4-65A	Beam Power Tube	Forced-Air	6	3.2 to 3.8	4-3/16	2-3/8	200	225	13	23
8166/4-1000A	Beam Power Tube	Forced-Air	7.5F	20 to 22.7	9-5/8	5-1/4	150	200	82	32
8168/4CX1000A	Beam Power Tube	Forced-Air	6.0	8.1 to 9.9	4.8	3.37	250	250	75	31
8170/4CX5000A	Beam Power Tube	Forced-Air	7.5	73 to 78	9.125	4.938	250	250	73	40
8226	Cermolox Tube	Forced-Air	6.3	3.2	2.71	1.64	250	250	See Technical Data Sheets	
8239/3X3000F1	Triode	Forced-Air	7.5	49 to 54	10.539[a]	4.156			84	38
8437	Cermolox Tube	Forced-Air	8.5	88	6.188	6.170	250	250	See Technical Data Sheets	
8438/4-400A	Beam Power Tube	Forced-Air	5	14.5	6-3/8	3-9/16	200	225	32	24
8462	Quick-Heating Beam Power Tube	Conduction	2.9F	4.6	2.26	1.44	250	250	See Technical Data Sheets	
8501	Cermolox Tube	Forced-Air	4.5	125	5.65	6.17	250	250	See Technical Data Sheets	

a Excluding flexible leads
b Outlet water temperature. 70°C max.
c Per section
d Metal-surface temperature
e Ceramic-surface temperature
f Class AB. Af Power Amplifier
g Intermittent Commercial and Amateur Service (ICAS) only
h Radiator temperature

CLASS C TELEGRAPHY SERVICE (CCS) UNLESS OTHERWISE SPECIFIED UNDER MAXIMUM PLATE VOLTS													
	MAXIMUM RATINGS								TYPICAL OPERATION			ADDITIONAL AVAILABLE DATA	RCA TYPE
FREQ. FOR FULL INPUT MC	PLATE VOLTS	GRID-NO. 2 VOLTS	GRID-NO. 1 VOLTS	PLATE MA	GRID-NO. 2 INPUT WATTS	GRID-NO. 1 CURRENT IN MA OR INPUT (W) IN WATTS	PLATE DISSIPATION WATTS	AMPLIFICATION OR MU FACTOR	FREQUENCY MC	DRIVER OR DRIVING (T) POWER WATTS	POWER OUTPUT WATTS		
1215	3000	1000	-300	1000	50	200	1500	17	600	75	1350	Yes	7213
60	1100	425	-300	340	20	25	60	8	60	4	160	No	7271
1215	1000	300	-100	180	4.5	30	115	18	1215	5	40	Yes	7457
500	2000[p]	500	-250	350[p]	12		250	4	500	12	360	Yes	7580
For data refer to MIL-E-1/1385 B. See commercially- equivalent type, RCA-7580.												No	7580W/ 4CX250R
For data refer to MIL-E-1/1331 (Navy). See commercially- equivalent type, RCA-7035/4X150F.												No	7609
1215	2500	1200	-250	500	25	100	700	13	400	35	800	Yes	7650
	750	250	-100	70	2	15	Note[q]	30	400	1	27	Yes	7801
1215	1000	300	-100	180	4.5	30	Note[q]	18	1215	5	40	Yes	7842
1215	1000	300	-100	180	7	30	Note[q]	18	1215	5	40	Yes	7843
1215	1000	300	-100	180	7	30	Note[q]	18	1215	5	40	Yes	7844
	750	250	-100	70	2	15	Note[q]	30	400	1	27	Yes	7870
30	2000		-500	250		40	125	16.5	30	8T	375	No	8000
60	1250		-200	200		45	75	20	60	6.5T	170	No	8005
60	600	250	-150	140	3	3.5	20	4.5	60	0.2	52	No	8032
500	2200	400	-100	300	8	100	Note[q]	11	470	5	85	Yes	8072
500	2200	400	-100	300	8	100	150	12	470	5	235	Yes	8121
500	2200	400	-100	300	8	100	400	12	470	5	300	Yes	8122
150	3000	400	-500	150	10	5W	65	For Existing Equipment				No	8165/4-65A
110	6000	1000	-500	700	75	25W	1000	For Existing Equipment				No	8166/4-1000A
110	3000[p]	400		1000	12	0W	1000	For Existing Equipment				No	8168/4CX1000A
30	7500	1500		3000	250	75W	5000	For Existing Equipment				No	8170/4CX5000A
1215	2500	400	-200	250	10	30	300	18	400	5	340	Yes	8226
	6000[f]			2500		50W	3000	For Existing Equipment				No	8239/3X3000F1
500	7000	1500	-150	4000	300	150W	10,000	30	400	600	10,000	Yes	8437
110	4000	600	-500	350	35	10W	400	For Existing Equipment				No	8438/4-400A
500	2200	400	-100	300	8	100	Note[q]	11	470	5	85	Yes	8462
	7000	1500	-100	3000	150	100W	10,000	16	900	900	5500	Yes	8501

j Rf Power Amplifier. Class B TV Service
k Filament temperature
m Measured on base end of plate surface at junction with fins
n Measured at plate seal
p Linear Rf Power Amplifier service. plate current at peak envelope conditions
q Maximum plate dissipation is a function of the maximum plate input. efficiency of the class of service. and the effectiveness of the cooling system

VACUUM POWER TUBES FOR RF PULSE APPLICATIONS

RCA TYPE	DESCRIPTION	COOLING	FILAMENT (F) OR HEATER		MAX. DIMENSIONS INCHES		MAX. ENVELOPE TEMPERATURES °C		DIMENSIONAL OUTLINE NO. (SEE PAGES 26 TO 31)	TERM. DIAG. NO. (SEE PAGES 24 TO 25)
			VOLTS	AMP.	LENGTH	DIAM.	TERM. OR RAD.	BULB, OR PLATE CORE		
2C40A	Lighthouse Triode	Natural	6.3	0.75	2-9/16	1.312		175	1	2
2041	Beam Power Tube	Liquid	2-Section		8.93	11.25	150[b] 100[c]		See Technical Data Sheets	
			1.35F[a]	1000[a]						
2054	Triode	Water	3.1 to 4.5F	6600 to 7200	17.00	14.100	150[b] 150[c]		See Technical Data Sheets	
4603	Shielded-Grid Beam Triode	Water	7.3 to 7.8F	1120 to 1160	40	10.06	150[b] 100[c]		See Technical Data Sheets	
4605V2	Beam Power Tube	Liquid	0.95F	495	9.50	11.25	150[b] 100[c]		See Technical Data Sheets	
4612	Triode	Water	1.5F	1800	19.5	23.5	150		See Technical Data Sheets	
4616	Beam Power Tube	Water	0.95F	495	8.93	11.25	150[b] 100[c]		See Technical Data Sheets	
4617	Triode	Water	1.5F	1800	17	24	150[b] 100[c]		See Technical Data Sheets	
4621	Beam Power Tube	Forced-Air	6.3	3.2	2.13	1.265	250	250	See Technical Data Sheets	
4622	Ruggedized Cermolox Tube	Conduction	6.3	3.2	1.930	1.115	250	250	See Technical Data Sheets	
5946	Triode	Forced-Air	6.3	3.4	3-13/32	1.76	150	180	See Technical Data Sheets	
6950/2039	Shield-Grid Beam Triode	Water	7.3 to 7.8F	1120 to 1160	37.24	20.50	150[b] 100[c]		See Technical Data Sheets	
6952	Beam Power Tube	Liquid	0.95F	495	8.93	11.25	150[b] 100[c]		See Technical Data Sheets	
7214	Cermolox Tube	Forced-Air	5.5	17.3	3.34	3.75	250	250	See Technical Data Sheets	
7649	Ruggedized Cermolox Tube	Forced-Air	6.3	3.2	1.930	1.265	250	250	See Technical Data Sheets	
7651	Ruggedized Cermolox Tube	Forced-Air	6.3	7.5	2.40	2.09	250	250	See Technical Data Sheets	
7835	Triode	Water	3.1 to 4.2F	6600	17	24	150		See Technical Data Sheets	
8184	Cermolox Tube	Forced-Air	22	12.6	7.24	5.56	150	250	See Technical Data Sheets	
8227	Cermolox Tube	Forced-Air	6.3	3.2	2.52	1.265	250	250	See Technical Data Sheets	

VACUUM POWER TUBES FOR MODULATORS

RCA TYPE	DESCRIPTION	COOLING	FILAMENT (F) OR HEATER		MAX. DIMENSIONS INCHES		MAX. ENVELOPE TEMPERATURES °C		DIMENSIONAL OUTLINE NO. (SEE PAGES 26 TO 31)	TERM. DIAG. NO. (SEE PAGES 24 TO 25)
			VOLTS	AMP.	LENGTH	DIAM.	TERM. OR RAD.	BULB, OR PLATE CORE		
3C33	Twin Triode	Natural	12.6	1.125	3-11/16	2-3/8		250	6	45
4600A	Cermolox Tube	Forced-Air	5.5	17.3	3.405	3.76	250		See Technical Data Sheets	
4614	Cermolox Tube	Forced-Air	6.3	7.5	2.40	2.09	250		See Technical Data Sheets	

FREQUENCY FOR FULL INPUT MC	PLATE PULSED RF AMPLIFIER SERVICE UNLESS OTHERWISE SPECIFIED UNDER MAXIMUM PLATE VOLTS MAXIMUM RATINGS											AMPLIFICATION OR MU-FACTOR	TYPICAL OPERATION					ADDITIONAL AVAILABLE DATA	RCA TYPE
	MAX. "ON" TIME USEC	TIME INTERVAL USEC	PEAK PLATE VOLTS	DC PLATE VOLTS	POSITIVE DC OR PEAK GRID-NO. 2 VOLTS	DC OR PEAK GRID-NO. 1 VOLTS	PEAK PLATE AMP.	DC PLATE AMP.	GRID-NO. 2 CURRENT IN MA OR INPUT (W) IN WATTS	GRID-NO. 1 CURRENT IN MA OR INPUT (W) IN WATTS	PLATE DISSIPATION WATTS		FREQ. MC	PULSE DURATION USEC	DUTY FACTOR	PEAK DRIVER OR DRIVING (T) POWER	PEAK POWER OUTPUT KW		
3370	10	5000	1400				1	2			4	35	3000	1.0	0.001		0.3	No	2C40A
174 to 575	220	11,000	40,000		2000	-350	15	0.3	50	30	20,000	8	450	200	0.01		300	Yes	2041
450	2200	34,000	34,000			-150	300	19.5			300,000		440	2000	0.06		5000	Yes	2054
100	3000	30,000	40,000	28,000		-1000	90	9		0.5	150,000	60	50	3000	0.09	12,000	1500	No	4603
174 to 600	15	3000	55,000		2200	-400	80	0.320	60	60	8000	7	425	13	0.004		2000	Yes	4605V2
600	8330[d]	16,600		16,000[e]		-150	100				300,000		475	8330	0.166	25,000	300	Yes	4612
195 to 600	15	3000	55,000	25,000	2200	-400	80	0.320	60	60	8000	7	425	13	0.004		2000	Yes	4616
450	25	2500	40,000			-200	500	5			150,000		425	25	0.01		8000	Yes	4617
1215	10	1000	7000	4000	1000	-200	6	0.05	10W	5W	125		1215	5	0.005		17	Yes	4621
1215	10	1000	3000		750	-200	3	0.05	4.5W	2	115	18	1215	10	0.01		4.5	Yes	4622
1300	10	1000	7500			-600	4.5	0.045		10	250	25	1250	5	0.01		14	Yes	5946
200	2500	40,000	40,000			-1000	92	5.7		300	150,000	57	200	2000	0.05		1500	Yes	6950/ 2039
174 to 600	15	3000	55,000		2200	-400	80	0.320	60	60	8000	7	425	13	0.004	20,000	2000	Yes	6952
1215	10	1000	10,000		1200	-300	18	0.20	50W	30	1500	19	1215	10	0.01	10 11	65	Yes	7214
1215	10	1000	3000		750	-200	3	0.05	4.5W	2	115	18	1215	10	0.01	350 450	4.5	Yes	7649
1215	10	1000	8000		1200	-250	9	0.120	25W	10	600	13	1215	10	0.01	5.3	39	Yes	7651
300	25	2500	65,000			-500	325	3.25			150,000		250	25	0.006		10,000	Yes	7835
500	See Technical Data Sheets																	Yes	8184
1215	5	1000	7000	4000	1000	-200	6	0.05	10W	5W	125		1215	5	0.005	1250	17	Yes	8227

a Per Section b Ceramic-Surface Temperature c Metal-Surface Temperature
d Special Wave form e Linear Rf Power Amplifier in Particle Accelerator Service

	AMPLIFICATION OR MU FACTOR	MAXIMUM REGULATOR RATINGS					ADDITIONAL AVAILABLE DATA	RCA TYPE	
		DC PLATE VOLTS	DC GRID-NO. 2 VOLTS	DC PLATE MA	GRID-NO. 2 INPUT WATTS	PLATE DISSIPATION WATTS			
	11	±2000[a]		120		15	No	3C33	
	17	3500	1000	1000	50	1750	Yes	4600A	
		2500	1200	500	17	400	Yes	4614	

a Peak AC Plate Voltage

VACUUM POWER TUBES FOR REGULATORS

RCA TYPE	DESCRIPTION	COOLING	FILAMENT (F) OR HEATER		MAX. DIMENSIONS INCHES		MAX. ENVELOPE TEMPERATURES °C		DIMENSIONAL OUTLINE NO. (SEE PAGES 26 TO 31)	TERM. DIAG. NO. (SEE PAGES 24 TO 25)
			VOLTS	AMP.	LENGTH	DIAM.	TERM. OR BAN	BULB, OR PLATE CORE		
3E29	Twin Beam Power Tube	Natural	6.3 / 12.6	2.25 / 1.125	4-5/16	2-3/8			5	7
3E29A	Twin Beam Power Tube	Natural	6.3 / 12.6	2.25 / 1.125	4-5/16	2-3/8			5	7
4610	Twin Triode	Natural	6.3 / 12.6	2.25 / 1.125	4-5/16	2-3/8			5	44
6293	Beam Power Tube	Natural	6.3	1.25	3-13/16	1-23/32		200	See Technical Data Sheets	

RECTIFIERS

Vacuum Types

RCA TYPE	DESCRIPTION	FILAMENT (F) OR HEATER		MAX. DIMENSIONS INCHES		BULB	DIMENSIONAL OUTLINE NO. (SEE PP 26 TO 31)	TERM. DIAG. NO. (SEE PP 24 TO 25)	MAXIMUM RATINGS				
		VOLTS	AMPS.	LENGTH	DIAM.				PEAK INVERSE ANODE VOLTS	PEAK ANODE AMP.	AVERAGE ANODE AMP.	AMBIENT AIR TEMPERATURE °C	BULB TEMPERATURE °C
2X2A	For Equipment subject to severe shock and vibration.	2.5	1.75	4-17/32	1-9/16	ST-12	15	46	12,500	0.06	0.0075	70	
579B	For high-voltage low-current uses.	2.5F	6	7-7/16	2-1/8	T16	43	47	20,000	0.27	0.025	50	75
836	For use in transmitting and industrial equipment.	2.5	5	6-9/16	2-7/16	ST-19	36	48	5000	1	0.25		

Gas Types

RCA TYPE	DESCRIPTION [e]	FILAMENT (F) OR HEATER		MAX. DIMENSIONS INCHES		BULB	DIMENSIONAL OUTLINE NO. (SEE PAGES 26 TO 31)	TERM. DIAG. NO. (SEE PAGES 24 TO 25)
		VOLTS	AMPS.	LENGTH	DIAM.			
3B25	Half-wave gas type	2.5F	5	6-5/16	2-1/16	T-16	31	50
3B28	Half-wave gas type, Hot cathode type	2.5F	5	6.15	2-1/16	T-16	29	50

MAXIMUM RATINGS											AMPLIFICATION OR MU-FACTOR	TYPICAL OPERATION			ADDITIONAL AVAILABLE DATA	RCA TYPE
MAX. "ON" TIME USEC	TIME INTERVAL USEC	PEAK PLATE VOLTS	DC PLATE VOLTS	POSITIVE DC OR PEAK GRID-NO. 2 VOLTS	DC OR PEAK GRID-NO. 1 VOLTS	PEAK PLATE AMP.	DC PLATE AMP.	GRID-NO. 2 INPUT WATTS	GRID-NO. 1 INPUT WATTS	PLATE DISSIPATION WATTS		PEAK POWER OUTPUT KW	PULSE DURATION USEC	DUTY FACTOR		
12	1200	5750	5000	850	-225	10	-	3	1	15	9	40	1.2	0.001	No	3E29
12	1200	7500	5000	850	-225	10	-	3	1	15	9	40	1.2	0.001	No	3E29A
			3000				0.1			30					No	4610
	10,000	2000	3500	500	-300	3	1.9	1.75	0.5	4	4.5	3.4	100	0.01	Yes	6293

RECTIFIERS

Vacuum Types

RCA TYPE	DESCRIPTION	FILAMENT (F) OR HEATER		MAX. DIMENSIONS INCHES		BULB	DIMENSIONAL OUTLINE NO. (SEE PP 26 TO 31)	TERM. DIAG. NO. (SEE PP 24 TO 25)	MAXIMUM RATINGS				
		VOLTS	AMPS.	LENGTH	DIAM.				PEAK INVERSE ANODE VOLTS	PEAK ANODE AMP.	AVERAGE ANODE AMP.	AMBIENT AIR TEMPERATURE °C	BULB TEMPERATURE °C
1616	For use in transmitting and industrial equipment.	2.5F	5	6-13/16	2-1/16	T16	40	49	6000	0.8	0.13		
5825	For rf operated high-voltage low-current power supplies.	1.6F	1.25	5-27/32	2-1/16	ST-16	21	49	60,000	0.04	0.002		80
8013A	For high-voltage low-current uses.	2.5F	5	6-1/16	2-1/16	T16	27	49	40,000	0.15	0.02		
8020	For high-voltage low-current uses.	5F	6.5	8	2-5/16	T18	46	49	40,000	1.5	0.1		

MAXIMUM PLATE OR ANODE RATINGS—FOR SUPPLY FREQUENCY OF 60 CPS*							OPERATING CONDITIONS SINGLE-PHASE FULL-WAVE** (WITH 2 TUBES)				RCA TYPE
TUBE VOLTAGE DROP	TEMP. RANGE COND. MERC. °C	PEAK INVERSE VOLTS	PEAK AMPERES	AVG. AMPERES	AVG. TIME SEC	FAULT[c] AMPERES	PEAK INVERSE VOLTS	MAX. AC PLATE-TO PLATE SUPPLY VOLTS	APPROX. DC OUTPUT VOLTS TO FILTER	MAX. DC OUTPUT AMPS.	
10	-75 to 90[b]	4500	2	0.5	20	30	4500	3000	1400	1	3B25
10	-75 to 90[b]	10,000 5000	1 2	0.25 0.5	20 20	30	10,000 5000	7000 3400	3200 1600	0.5 1	3B28

b Ambient temperature

RCA TYPE	DESCRIPTION[e]	FILAMENT (F) OR HEATER		MAX. DIMENSIONS INCHES		BULB	DIMENSIONAL OUTLINE NO. (SEE PAGES 26 TO 31)	TERM. DIAG. NO. (SEE PAGES 24 TO 25)
		VOLTS	AMP.	FAULT	DIAM.			
575A	Half-wave mercury-vapor type	5F	10	11-1/16	3-1/8		62	51
604/7014	Full-wave gas and mercury-vapor type	2.5F	11.5	7-1/2	2-1/16	T-16	44	52
615/7018	Half-wave mercury-vapor type	2.5F	7	6-3/8	2-1/16	ST-16	33	53
635/7019	Half-wave gas and mercury-vapor type	2.5F	18	9-1/2	2-1/16	T-16	60	54
635L/7020	Half-wave gas and mercury-vapor type	2.5F	18	9-1/2	2-3/16	T-16	60	54
673	Half-wave mercury-vapor type	5F	10	11-3/8	3-1/8		69	55
816	Half-wave mercury-vapor type	2.5F	2	4-11/16	1-9/16	ST-12	16	50
857B	Half-wave mercury-vapor type	5F	30	19-7/8[a]	7-1/8	GT-56	71	56
866A	Half-wave mercury-vapor type	2.5F	5	6-9/16	2-7/16	ST-19	35	50
869B	Half-wave mercury-vapor type	5F	19	14-7/16	5-1/8	GT-40	70	57
872A	Half-wave mercury-vapor type	5F	7.5	8-1/2	2-5/16	T-18	51	58
4620	Half-wave mercury-vapor type. For high-voltage, high-current rectifier service with "fault" protection	Same as 857B except for added filament shield					71	56
5558	Half-wave mercury-vapor type	5	4.5	7	1-9/16	ST-23	41	59
5561	Half-wave mercury-vapor type	5	10	11-1/4	3-13/16	ST-30	67	60
		Welder-Control Ratings						
6894	Half-wave mercury-vapor type	5F	10	10-17/32	2-5/8	T-20	63	58
6895	Half-wave Mercury-vapor type	5F	10	10-13/32	2-5/8	T-20	64	55
8008	Half-wave mercury-vapor type	5F	7.5	8-3/4	2-5/16	T-18	55	55

* Values shown with dashed-underline are for quadrature operation; other values are for in-phase operation
** Conditions assumed: (1) sine-wave supply (2) zero voltage drop (3) pure resistive load (4) no filter
a Excluding flexible leads
b Ambient temperature
c Duration of 0.1 second maximum, unless otherwise specified
d Duration of 0.2 second maximum
e Natural cooling (convection), unless otherwise specified

MAXIMUM PLATE OR ANODE RATINGS—FOR SUPPLY FREQUENCY OF 60 CPS*							OPERATING CONDITIONS SINGLE-PHASE FULL-WAVE** (WITH 2 TUBES)				RCA TYPE
TUBE VOLTAGE DROP	TEMP. RANGE COND. MERCURY °C	PEAK INVERSE VOLTS	PEAK AMPS.	AVG. AMPS.	AVG. TIME SEC	FAULT[c] AMPS.	PEAK IN-VERSE VOLTS	MAX. AC PLATE-TO PLATE SUPPLY VOLTS	APPROX. DC OUTPUT VOLTS TO FILTER	MAX. DC OUTPUT AMPS.	
10	20 to 50 20 to 60 20 to 50 20 to 60	15,000 10,000 15,000 10,000	6 7 10 10	1.5 1.75 2.5 2.5	100 100 100 100	20 20 	15,000 10,000	10,600 7000	4800 3200	3 3.5	575A
10	0 to 90	900	10	2.5	150	5					604/7014
12	35 to 80	2000	10	2.5	250	5					615/7018
9	-40 to 100	1000	77	6.4	770	5					635/7019
	Same as 635/7019 except for lug-type base										635L/7020
10	For maximum ratings and operating conditions, refer to type 575A										673
15	20 to 60	7500	0.5	0.125	5	30	7500	5200	2400	0.25	816
15	30 to 40 25 to 60	22,000 10,000	40 40	10 10	400d 400d	30	22,000 10,000	15,400 7000	7000 3200	20 20	857B
15	20 to 60 20 to 70 20 to 80	10,000 5000 2500	1 1 2	0.25 0.25 0.5	20 20 20	30	10,000 5000 2500	7000 3400 1600	3200 1600 800	0.5 0.5 1	866A
15	30 to 40 30 to 50 30 to 60 30 to 40 30 to 50 30 to 60	20,000 15,000 10,000 20,000 15,000 10,000	10 10 10 10 20 20	2.5 2.5 2.5 2.5 5 5	100 100 100 100 100 100	30 30 30 	20,000 15,000 10,000	14,000 10,600 7000	6300 4700 3200	5 5 5	869B
10	20 to 60 20 to 70	10,000 5000	5 5	1.25 1.25	50 50	15	10,000 5000	7000 3400	3200 1600	2.5 2.5	872A
	For maximum ratings and operating conditions, refer to type 857B										4620
12	35 to 60 35 to 80	5000 2000	15 15	2.5 2.5	200 200	15					5558
15	40 to 80 25 to 50	3000 10,000	40 16	6.4 4	400 160	15					5561
16	20 to 50 20 to 55 20 to 60 20 to 50 20 to 55 20 to 60	20,000 15,000 10,000 20,000 15,000 10,000	8.3 8.3 8.3 11.5 11.5 11.5	1.8 1.8 1.8 2.5 2.5 2.5	100 100 100 100 100 100	20 20 20 	20,000 15,000 10,000	14,000 10,600 7000	6300 4700 3100	3.6 3.6 3.6	6894
	For maximum ratings and operating conditions, refer to type 6894										6895
	For maximum ratings and operating conditions, refer to type 872A										8008

THYRATRONS

RCA TYPE	DESCRIPTION	FILAMENT (F) OR HEATER		MAX. DIMENSIONS INCHES		BULB	APPROX. TUBE DROP VOLTS	IONIZATION TIME USEC	MAX. DEIONIZATION TIME USEC
		VOLTS	AMPS.	LENGTH	DIAM.				
3C23	Triode, Gas and mercury-vapor, negative-control.	2.5F	7	6-1/8	2-1/16	ST-16	15	10	1000
3D22A	Tetrode, Gas, negative-control.	6.3	2.6	4-5/8	2-3/8	T-16	10	0.5	400
105	Tetrode, mercury-vapor, negative-control.	5	10	11-1/4	2-1/2[b]	ST-30	16	10	1000
		Max. Ratings for Intermittent Service							
172	Tetrode, mercury-vapor, negative-control.	5	10	10-27/32	2-5/8[b]		16	10	1000
		5.5	11	Welder-Control Ratings					
627	Triode, mercury-vapor, negative-control.	2.5F	5	6-5/8	2-1/16	S-19	12	10	1000
629	Triode, Gas. Not recommended for new equipment design.	2.5	2.6	4-1/4	1-9/16	ST-12	15	10	1000
632B	Tetrode, mercury-vapor, negative-control. Ignitor firing applications.	5	5	8-5/16	1-3/4[b]	T-18	12	10	1000
672A	Tetrode, mercury-vapor, negative-control. Ignitor firing applications.	5	5	8-3/8	2-5/16	T-18	12	10	1000
676	Triode, mercury-vapor, negative-control.	5	10	11-3/4	3-13/16	ST-30	12	10	1000
		Welder-Control Ratings							
677	Triode, mercury-vapor, negative-control.	5	10	11-11/16	3-13/16	ST-30	12	10	1000
710/6011	Triode, gas and mercury-vapor, negative-control.	2.5F	9	6-1/4	1-5/8	T-13	10	10	1000
714/7021	Triode, gas and mercury-vapor, negative-control.	2.5F	5	6-1/8	2-1/16	ST-16	15	10	1000
716/6855	Triode, gas and mercury-vapor, negative-control.	2.5F	6.3	4-3/8	1-9/16	T-12	8	10	1000
760/6858	Triode, gas and mercury-vapor, negative-control.	2.5F	21	9-1/2	2-9/16		12	10	1000
5557	Triode, mercury-vapor, negative-control.	2.5F	5	6-1/8	2-1/16	ST-16	15	10	1000
5559	Triode, mercury-vapor, negative-control.	5	4.5	7-1/4	3	ST-23	16	10	1000
5560	Tetrode, mercury-vapor, negative-control. Ignitor firing applications.	5	4.5	7-15/16	2-1/4[b]	ST-23	16	10	1000
5563A	Triode, mercury-vapor, negative-control.	5F	10	10-17/32	2-5/8	T-20	15	10	1000
		Values shown are for quadrature operation. Filament voltage is 60° to 120° out of phase (leading or lagging) with anode voltage.							
6130/3C45	Triode, positive-control, hydrogen type. Full ratings to 50,000 feet. Pulse modulator.	6.3	2.3	5-3/16	1-9/16	T-12	150	0.6	25
C1K/6014	Triode, negative-control, xenon type.	2.5F	6.3	4-5/16	1-9/16	T-12	8		500
C3J/5632	Triode, negative-control, xenon type.	2.5F	9	6	1-5/8	T-12	10		1000
C3JA/5684	Triode, negative-control, xenon type.	2.5F	9	6	1-5/8	T-12	10	10	1000
C3JL	Triode, negative-control, xenon type.	2.5F	9	6-3/4	2-3/16		10	10	1000
C6J/5C21	Triode, negative-control, xenon type.	2.5F	21	9-1/2	2-1/16	T-16	9		1000
C6JA/5685	Triode, negative-control, xenon type.	2.5F	21	9-1/2	2-1/32	T-16	9		1000
C16J/5665	Triode, negative-control, xenon type.	2.5F	31	10-1/2[c]	2-9/16[d]	T-20	11		1000

a For maximum duration of 0.1 second. b Maximum radius. c Excluding flexible leads. d Bulb diameter.

MAXIMUM RATINGS, IN-PHASE OPERATION, UNLESS OTHERWISE SPECIFIED													DIMENSIONAL OUTLINE NO. (SEE PAGES 26 TO 31)	TERM. DIAG. NO. (SEE PAGES 24 TO 25)	RCA TYPE
PEAK FWD. ANODE VOLTS	PEAK IN-VERSE ANODE VOLTS	PEAK ANODE OR CATH. (C) AMPS.	GRID-NO. 1 VOLTS		GRID-NO. 2 VOLTS		AVER-AGE ANODE AM-PERES	TIME OF AVER-AGE CUR-RENT SEC	AVER-AGE GRID-NO. 1 AM-PERES	AVER-AGE GRID-NO. 2 AM-PERES	FAULT AM-PERES[2]	TEMP. RANGE COND. MERC. °C OR AMBIENT (A) °C			
			BEFORE CONDUC-TION	DURING CONDUC-TION	BEFORE CONDUC-TION	DURING CONDUC-TION									
1250	1250	6	-500	-10			1.5	5	+0.01		120	-40 to +80A	25	61	3C23
650	1500	8	-200	-10	-100	-10	0.8	30	+0.05	+0.1	30	-75 to +90A	See Technical Data Sheets		3D22A
Grid-No. 1 Circuit Resistance, 2 Megohms Max.															
2500 10,000	2500 10,000	40 16	-1000	-10	-500	-10	6.4 4	15	0.25	0.5	400 160	40 to 80 25 to 50	66	63	105
2000 750	2000 750	40 77	-1000	-10	-300	-5.0	6.4 2.5	15	0.25	0.5	400 400	40 to 80 30 to 95	65	64	172
2500	5000	2.5	-500				0.64	30	0.06		25	25 to 70	34	77	627
350	350	0.2	-90				0.04	10	0.0004		2	-40 to +70A	11	65	629
1500	1500	30	-1000		-300		2.5	15	0.25	+0.25	150	40 to 80	54	66	632B
2500	2500	40C	-1000		-300		3.2	15	0.25	0.25	150	40 to 80	50	67	672A
2500 750	2500 750	40C 77C	-500	-10			6.4 2.5	15 5	0.25		200 200	40 to 80 40 to 90	68	68	676
10,000	10,000	16C	-500	-10			4	15	0.25		16	30 to 50	68	68	677
1500	1500	30C	-500	-10			2.5	5			250	-40 to +80	30	69	710/6011
1250	1250	3	-500	-10			1.0	5			50	-40 to +80	28	70	714/7021
1250	1250	8.0C	-500	-10			1.0	5			80	-40 to +80	12	71	716/6855
1500	1500	77C	-500	-10			6.4	15			770	-40 to +80	59	72	760/6858
5000 2500 1250	10,000 5000 1250	1 2 3	-500	-10			0.25 0.5 1	15 15	0.05		50 50 50	40 to 60 40 to 80 40 to 90	25	61	5557
1000	1000	15C	-500	-10			2.5	15	+0.25		200	40 to 80	42	73	5559
1000	1000	15C	-1000	-10	-300	-5	2.5	15	0.25	0.25	200	40 to 80	48	66	5560
20,000 15,000 20,000 15,000	20,000 15,000 20,000 15,000	6.4 10 11.5 11.5	-500 -500	-10 -10			1.6 1.8 2.5 2.5	20 20	0.1 0.1		70 70 70 70	25 to 50 25 to 55 25 to 50 25 to 55	See Technical Data Sheets		5563A
3000	3000	35	-200				0.045					-50 to +90A	18	73	6130/3C45
1000	1250	8	-100	-10			1	4.5			77	-55 to +70A	10	75	C1K/6014
900	1250	30	-100	-10			2.5	4.5			300	-55 to +75A	24	76	C3J/5632
1000	1250	30	-100	-10			2.5	4.5			300	-55 to +75A	24	76	C3JA/5684
900	1250	30	-100	-10			2.5	4.5			300	-55 to +75A	93	77	C3JL
750	1250	77	-100	-10			6.4	6	less than 0.1		770	-55 to +75A	61	78	C6J/5C21
1000	1250	77	-100				6.4	6			770	-55 to +75A	61	78	C6JA/5685
1000 1000	1250 1250	160 100	-100 -100				16 18	4.5 4.5			1000 1000	-55 to +75A	81	79	C16J/5665

Resistance-Welding-Control Service

RCA TYPE	RESISTANCE-WELDING-CONTROL SERVICE DESCRIPTION	COOLING	MAX. DIMENSIONS INCHES		MAXIMUM RATINGS, TWO TUBES IN INVERSE-PARALLEL CIRCUIT					
					ANODE					
			RIGID LGTH.	RAD.	DEMAND POWER KVA	DUTY	PEAK AMPERES	DEMAND AMPERES[e]	AVG. AMPERES	FAULT AMPERES[d]
5550	Compact, steel-jacketed type used with removable clamp for water-cooled operation.	Air or Water-Cooled Clamp	9-13/16	2-1/2[c]	50 150 50 150 100 300 100 300	10 1.8 24 4.32 12.4 2.24 30 5.4	282 846 118 354 564 1692 236 708	200 600 83 250 400 1200 167 500	9 4.86 9 4.86 22.4 12.1 22.4 12.1	1680 1680 700 700 3360 3360 1400 1400
5551A	Steel-jacketed type recommended for welding-control service but also useful for intermittent rectifier-service. Has bracket for mounting thermostat.	Water	13	2-7/8	200 600 200 600 600 200 600 200	15 2.8 37 6.7 1.9 9.7 4.7 23	1130 3400 466 1410 3400 1130 1410 466	800 2400 333 1000 2400 800 1000 333	56 30.2 56 30.2 21 36 21 36	6720 6720 2800 2800 6720 6720 2800 925
5552A	Steel-jacketed type recommended for welding-control service but also useful for intermittent rectifier-service. Has bracket for mounting thermostat.	Water	14	3-5/8	400 1200 400 1200 1200 400 1200 400	19 3.5 47 8.5 2 11 4.8 26	2260 6800 945 2830 6800 2260 2830 945	1600 4800 666 2000 4800 1600 2000 666	140 75.6 140 75.6 43 80 43 80	13,450 13,450 5600 5600 13,450 13,450 5600 5600
5553B	Steel-jacketed type recommended for welding-control service but also useful for intermittent rectifier-service. Has bracket for mounting thermostat.	Water	19-1/2	4-11/16	800 2400 800 2400 2400 800 2400 800	24.6 4.4 59 10.7 2.2 12.2 5.3 29	4530 13,600 1890 5660 13,609 4530 5660 1890	3200 9600 1330 4000 9600 3200 4000 1330	355 192 355 192 96 175 96 175	27,000 27,000 11,200 11,200 27,000 27,000 11,200 11,200

Welding-Capacitor Discharge Service

RCA TYPE	DESCRIPTION	COOLING	MAX. DIMENSIONS INCHES		MAXIMUM ANODE RATINGS					
			RIGID LGTH.	DIAM.	PEAK FORWARD VOLTS	PEAK INVERSE VOLTS	PEAK AMPERES	AVG. AMPERES	AVG. TIME INTERVAL SEC	DUR. OF CATH. SPOT/ DISC. SEC
5550	Compact, steel-jacketed type used with removable clamp for water-cooled operation.	Air or Water-Cooled Clamp	9-13/16	2-1/2[c]	3000 3000 6000 6000	3000 3000 3000 3000	500 500 500 500	15 3 8 2.5	0.66 3.3 1.25 4	0.02 0.02 0.02 0.2

a Over any interval of 5 seconds max. b At specified peak-voltage or peak-current value

c Maximum diameter d For duration of 0.15 second maximum

IGNITOR					MIN. PEAK VOLTS	MIN. PEAK CURRENT	MIN. STARTING TIME USEC [b]	TEMPERATURE RANGE °C	RMS SUPPLY VOLTS	DIMENSIONAL OUTLINE NO. (SEE PAGES 26 TO 31)	TERM. DIAG. NO. (SEE PAGES 24 TO 25)	RCA TYPE
PEAK VOLTS		AMPERES										
NEG.	POS.	PEAK	AVG. [a]	RMS								
5	900	100	1	10	200	30	100	10 to 75 10 to 50	250 250 600 600 250 250 600 600	83	80	5550
5	Equal to Anode Volts	100	1	10	200	30	100	10 to 40	250 250 600 600 250 250 600 600	88	80	5551A
5	Equal to Anode Volts	100	1	10	200	30	100	10 to 40	250 250 600 600 250 250 600 600	89	80	5552A
5	Equal to Anode Volts	100	1	10	200	30	100	10 to 40	250 250 600 600 250 250 600 600	91	80	5553B

MAXIMUM IGNITOR RATINGS											TERM. DIAG. NO. (SEE PAGES 24 TO 25)	RCA TYPE
PEAK VOLTS		AMPERES			MIN. PEAK VOLTS	MIN. PEAK CURRENT	MIN. STARTING TIME	CLAMP TEMP. °C	NO. DISC. PER SEC	DIM. OUTLINE NO. (SEE PAGES 26 TO 31)		
NEG.	POS.	PEAK	AVG. [a]	RMS								
5	900	100	1	10	200	30	100	40 70 40 60	60 60 60 60	83	80	5550

INTERMITTENT RECTIFIER SERVICE AND FREQUENCY-CHANGER WELDER SERVICE

RCA TYPE	DESCRIPTION	COOL-ING	MAX. DIMENSIONS INCHES		MAXIMUM RATINGS FOR ZERO PHASE-CONTROL ANGLE AND FREQUENCIES FROM 50-60 CPS							
					ANODE							
					PEAK FOR-WARD VOLTS	PEAK IN-VERSE VOLTS	PEAK AM-PERES	AVERAGE AMPERES				FAULT AM-PERES d
								INTERVAL I		INTERVAL II		
			RIGID LGTH.	DIAM.				AMP.	USEC	AMP.	USEC	
5551A	Steel-jacketed type recommended for welding-control service but also useful for intermittent rectifier-service. Has bracket for mounting thermostat.	Water	13	2-7/8	500	500	700	40	6			8750
					1200	1200	135	22.5	10	22.5	0.2	7500
					1200	1200	600	5	10	100	0.2	7500
					1500	1500	108	18	10	18	0.2	6000
					1500	1500	480	4	10	80	0.2	6000
5552A	Steel-jacketed type recommended for welding-control service but also useful for intermittent rectifier-service. Has bracket for mounting thermostat.	Water	14	3-5/8	500	500	1600	100	6			6000
5553B	Steel-jacketed type recommended for welding-control service but also useful for intermittent rectifier-service. Has bracket for mounting thermostat.	Water	19-1/2	4-11/16	600	600	1440	190	6.25	190	0.2	50,000
					600	600	4000	54	6.25	666	0.2	50,000
					1200	1200	840	140	6.25	140	0.2	37,500
					1200	1200	3000	40	6.25	500	0.2	37,500
					1500	1500	672	112	6.25	112	0.2	30,000
					1500	1500	2400	32	6.25	400	0.2	30,000

a Over any interval of 5 seconds max. b At specified peak-voltage or peak-current value
c Maximum diameter d For duration of 0.15 second maximum

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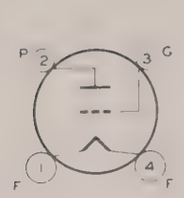
4621	12-13
4622	12-13
4624	6-7

MAXIMUM IGNITOR RATINGS										
PEAK VOLTS		AMPERES			MIN. PEAK VOLTS	MIN. PEAK CURRENT	MIN. STARTING TIME USEC	DIM. OUTLINE NO. (SEE PAGES 26TO31)	TERM. DIAG. NO. (SEE PAGES 24 TO 25)	RCA TYPE
NEG.	POS.	PEAK	AVG. [a]	RMS						
5	Equal to Anode Volts	100	1	10	200	30	100	88	80	5551A
5	Equal to Anode Volts	100	1	10	200	30	100	89	80	5552A
5	Equal to Anode Volts	100	1	10	200	30	100	91	80	5553B

e RMS, during conduction

Type No.	Page No.
5550	20-21
5551A	20-21
5552A	20-21
5553B	20-21
5556	6-7
5557	18-19
5558	16-17
5559	18-19
5560	18-19
5561	16-17
5563A	18-19
5632	See C3J/5632
5665	See C16J/5665
5671	6-7
5684	See C3JA/5684
5685	See C6JA/5685
5713	6-7
5762/7C24	6-7
5770	6-7
5771	6-7
5786	8-9
5825	15
5946	12-13
6011	See 710/6011
6014	See C1K/6014
6130/3C45	18-19
6146	8-9
6146A	8-9
6146B/8298A	8-9
6146W/7212	8-9
6155	8-9
6156	8-9
6159	8-9
6159B	8-9
6159W/7357	8-9
6161	8-9
6166	8-9
6166A/7007	8-9
6181	8-9
6293	14-15
6448	8-9
6524	8-9
6806	8-9
6816	8-9
6850	8-9
6855	See 716/6855
6858	See 760/6858
6883	8-9
6883B/8032A/8552	8-9
6884	8-9
6893	8-9
6894	16-17
6895	16-17
6897	8-9
6949	8-9
6950/2039	12-13
6952	12-13
7007	See 6166A/7007
7014	See 604/7014
7018	See 615/7018
7019	See 635/7019
7020	See 635L/7020
7021	See 714/7021
7034/4X150A	8-9
7035/4X150D	8-9
7094	10-11
7203/4CX250B	10-11
7204/4CX250F	10-11
7212	See 6146W/7212
7213	10-11
7214	12-13
7271	10-11
7357	See 6159W/7357
7457	10-11
7580	10-11
7580W/4CX250R	10-11
7609	10-11
7649	12-13
7650	10-11
7651	12-13
7801	10-11
7835	12-13
7842	10-11
7843	10-11
7844	10-11
7870	10-11
8000	10-11
8005	10-11
8008	16-17
8013A	15
8020	15
8032	10-11
8072	10-11
8121	10-11
8122	10-11
8165/4-65A	10-11
8166/4-1000A	10-11
8168/4CX1000A	10-11
8170/4CX5000A	10-11
8184	12-13
8226	12-13
8227	12-13
8239/3X3000F1	12-13
8298A	See 6146B/8298A
8437	12-13
8438/4-400A	12-13
8462	12-13
8501	12-13
C1K/6014	18-19
C3J/5632	18-19
C3JA/5684	18-19
C3JL	18-19
C6J/5C21	18-19
C6JA/5685	18-19
C16J/5665	18-19

TERMINAL DIAGRAMS



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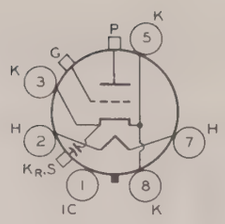

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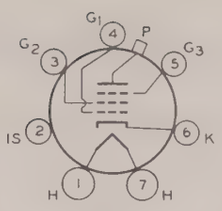

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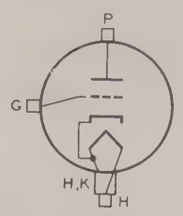

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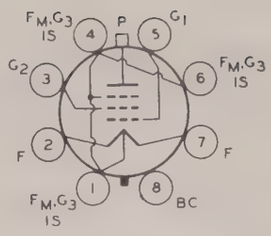

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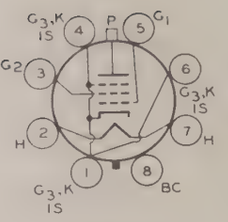

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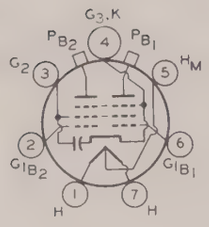

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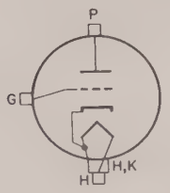

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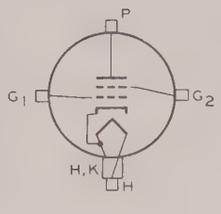

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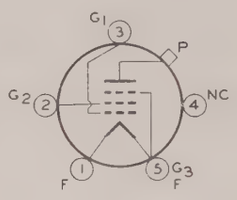

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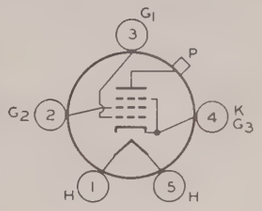

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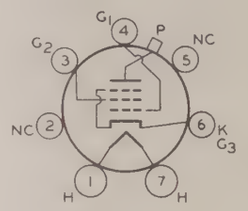

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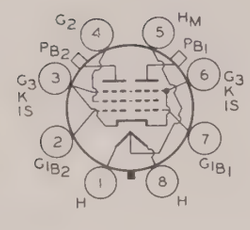

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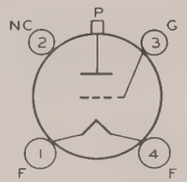

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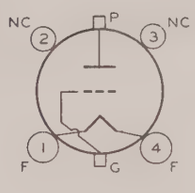

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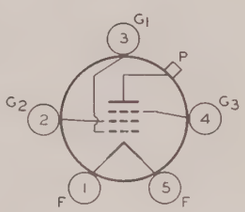

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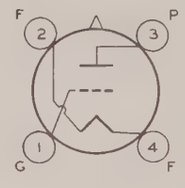

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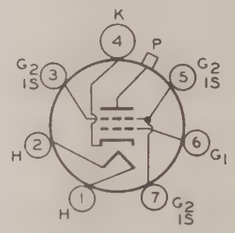

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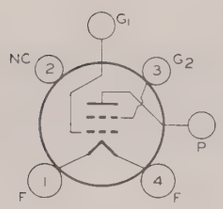

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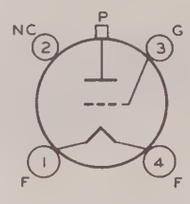

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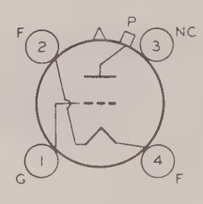

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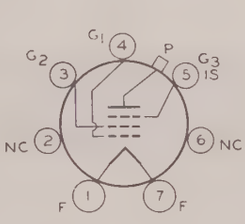

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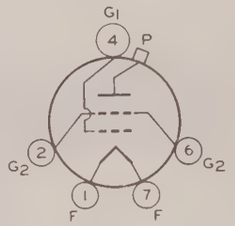

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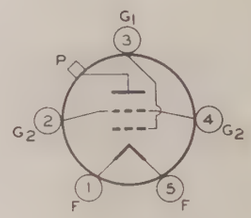

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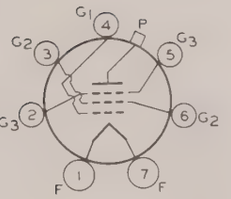

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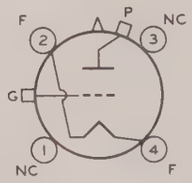

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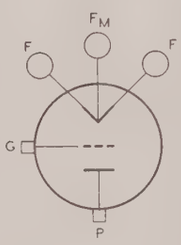

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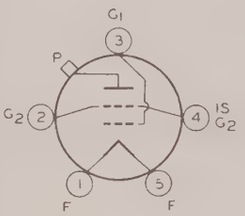

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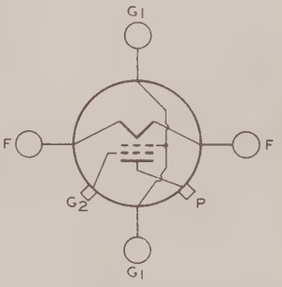

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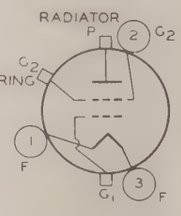

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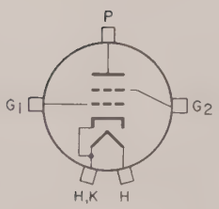

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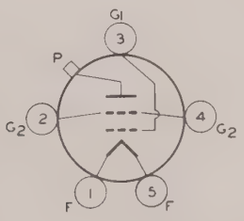

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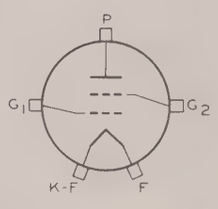

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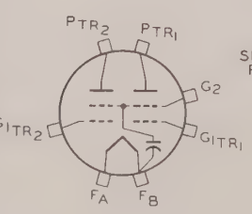

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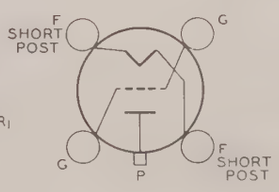

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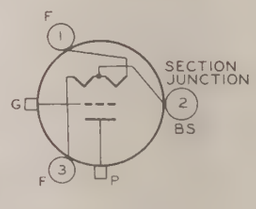

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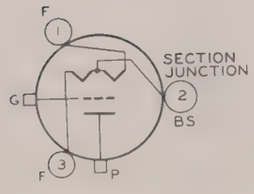

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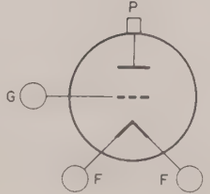

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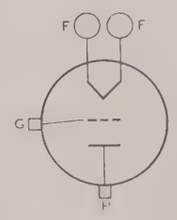

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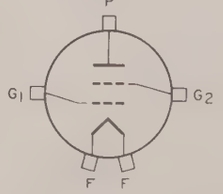

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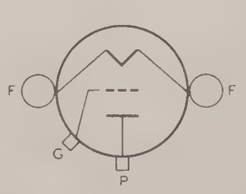

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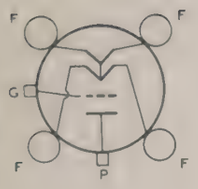
TERMINAL DIAGRAMS



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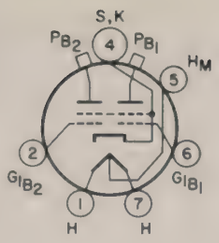

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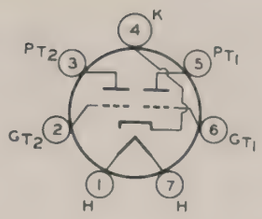

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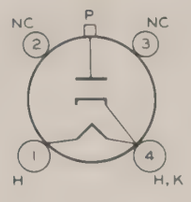

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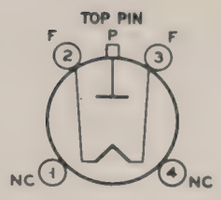

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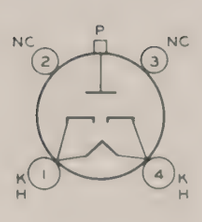

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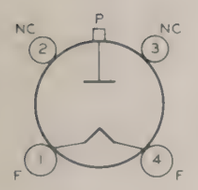

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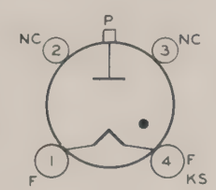

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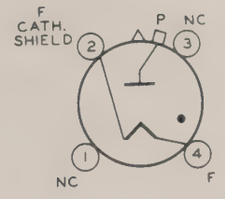

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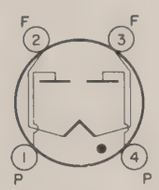

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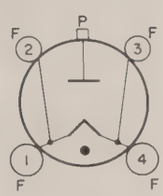

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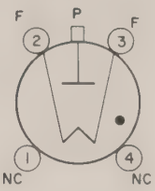

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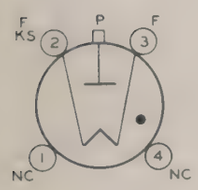

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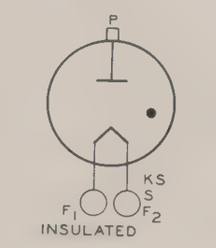

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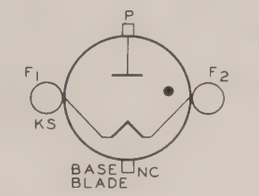

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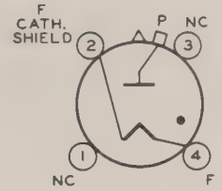

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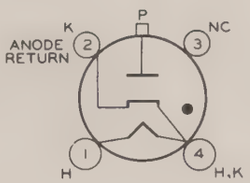

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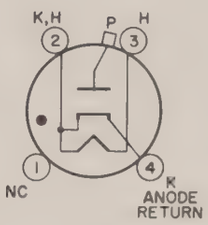

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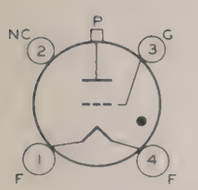

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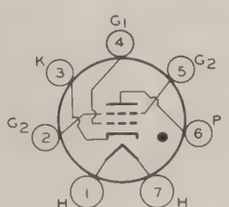

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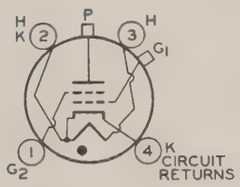

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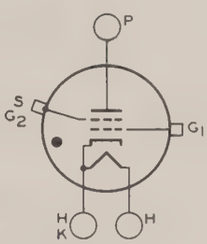

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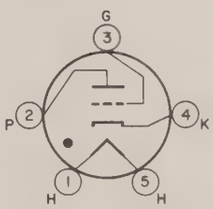

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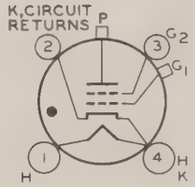

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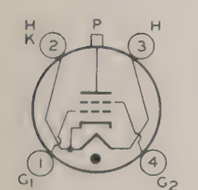

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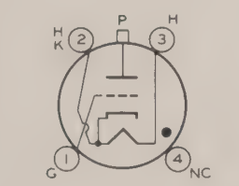

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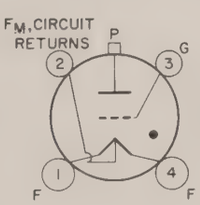

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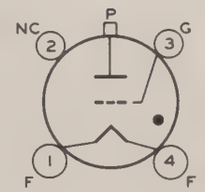

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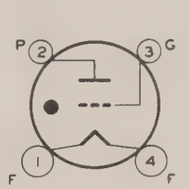

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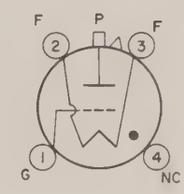

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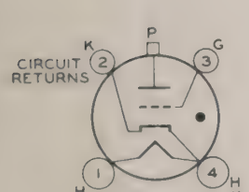

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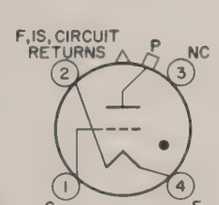

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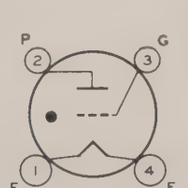

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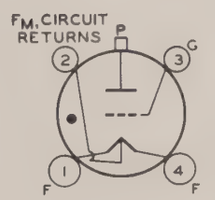

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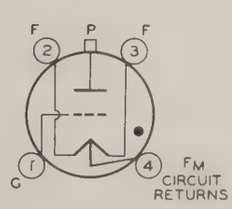

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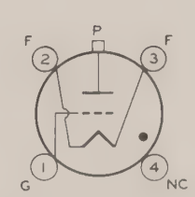

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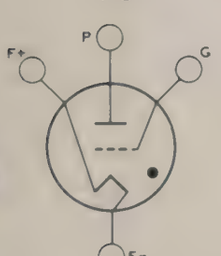

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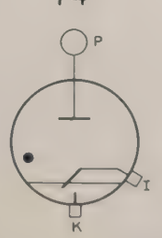

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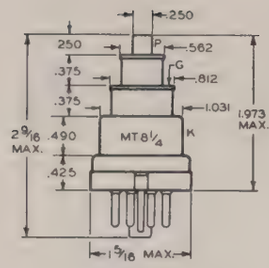
DIMENSIONAL OUTLINE



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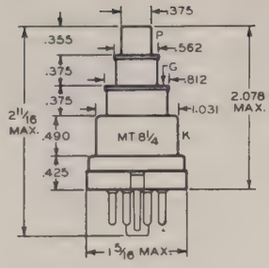

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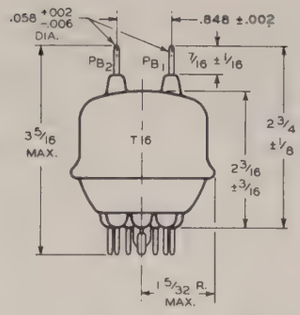

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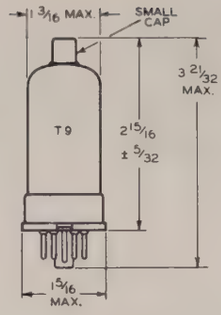

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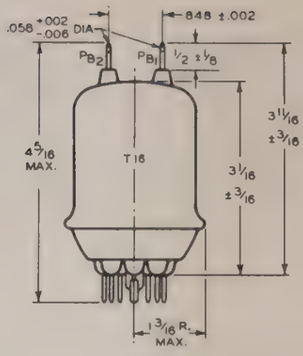

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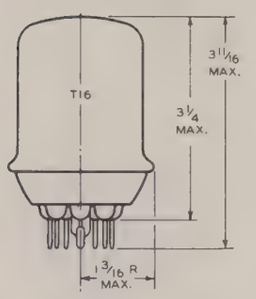

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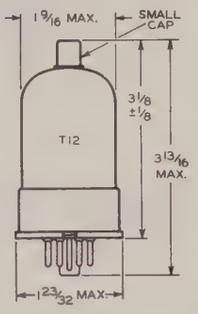

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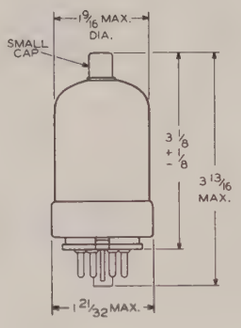

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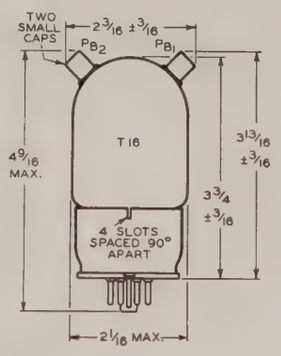

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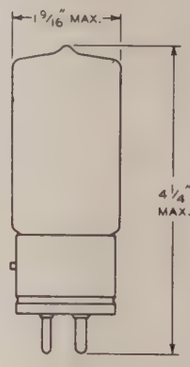

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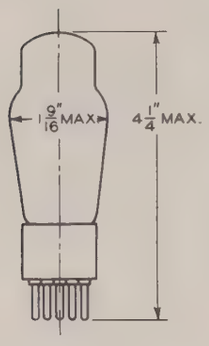

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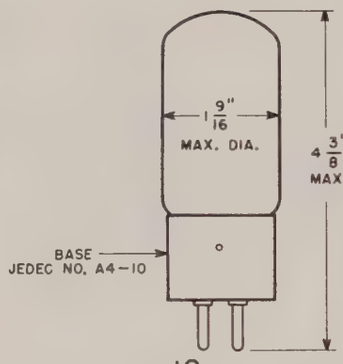

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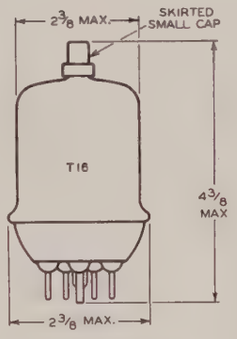

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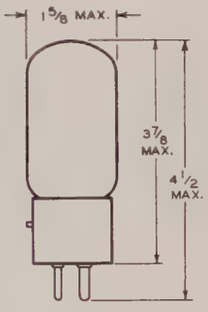

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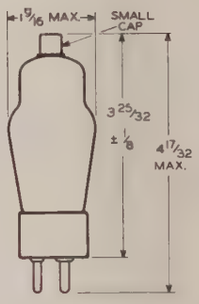

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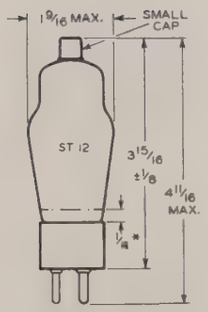

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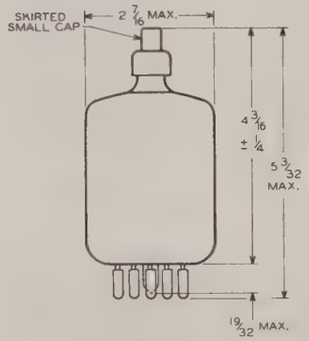

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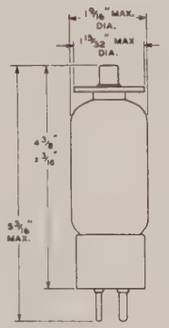

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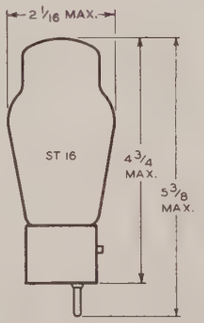

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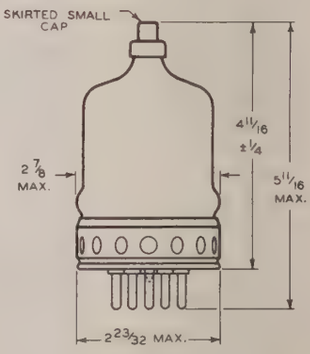

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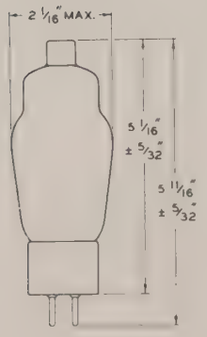

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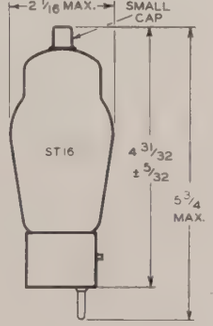

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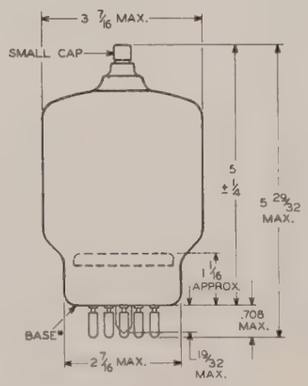

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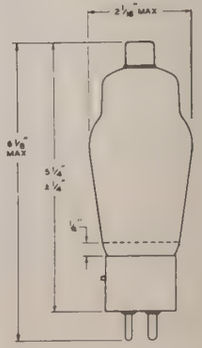

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DIMENSIONAL OUTLINE

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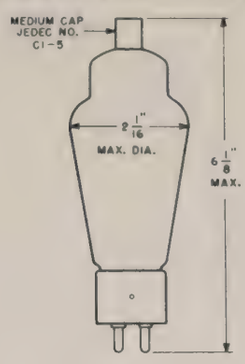

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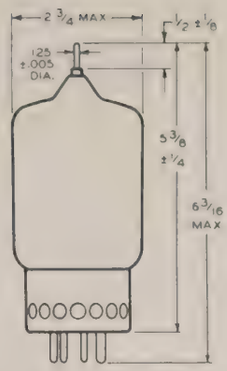

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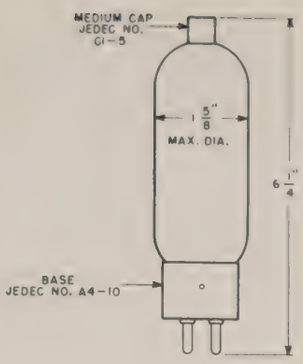

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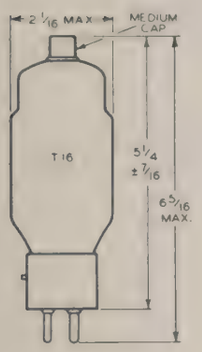

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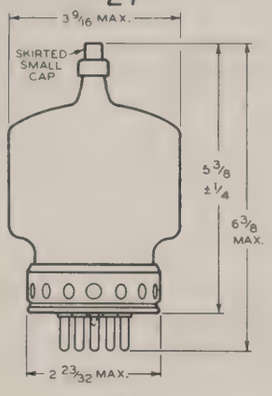

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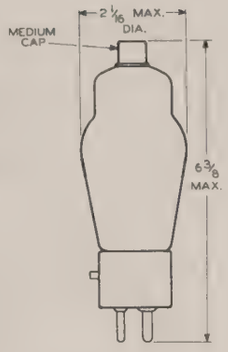

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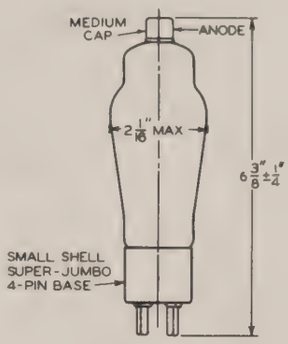

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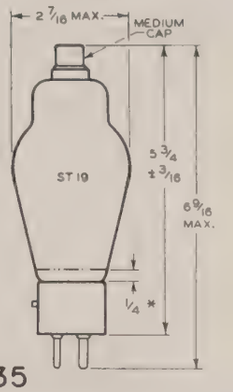

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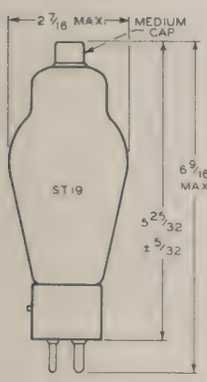

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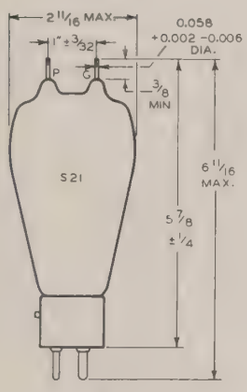

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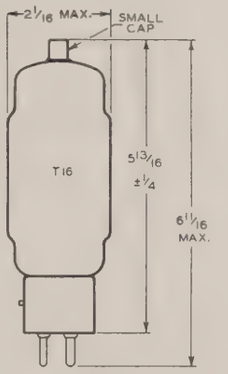

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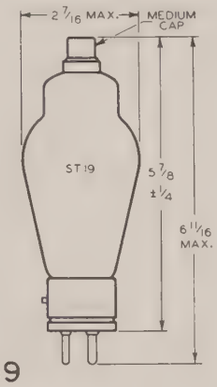

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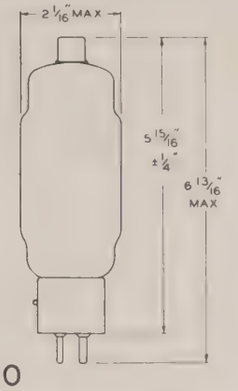

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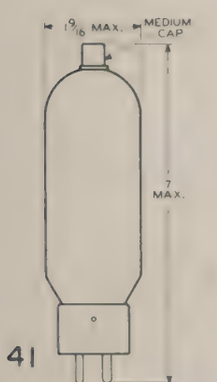

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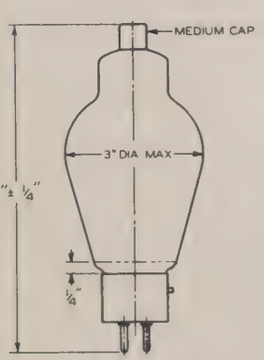

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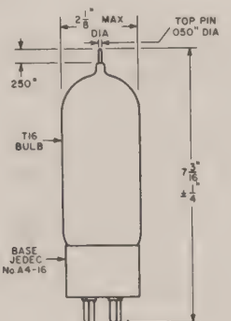

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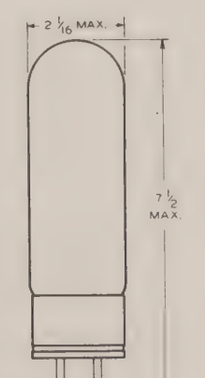

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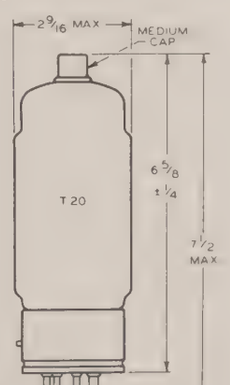

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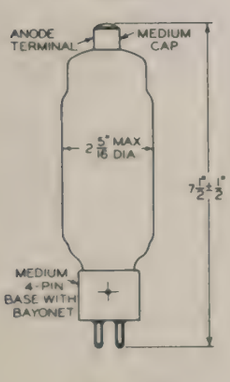

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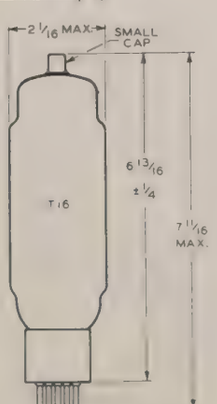

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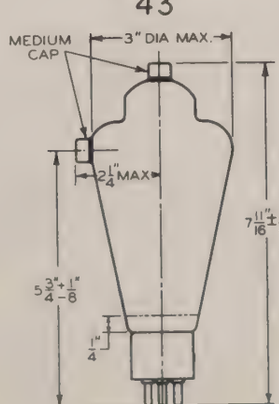

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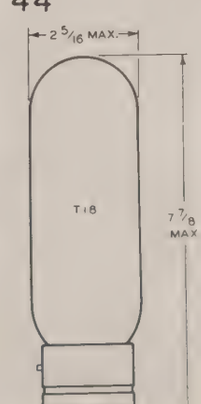

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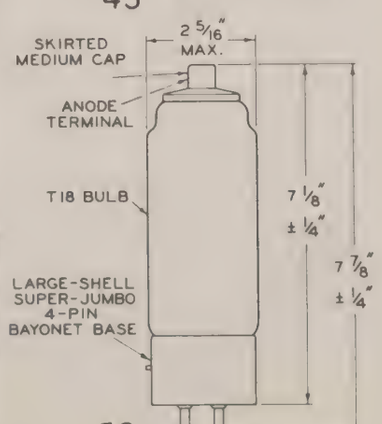

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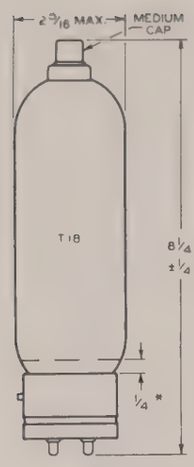
DIMENSIONAL OUTLINE



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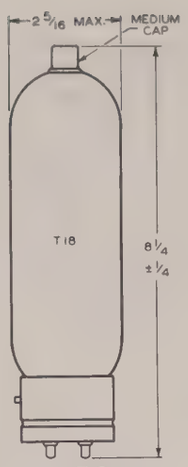

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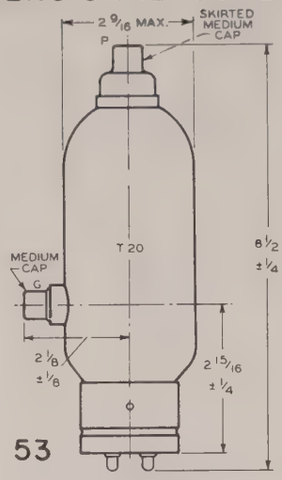

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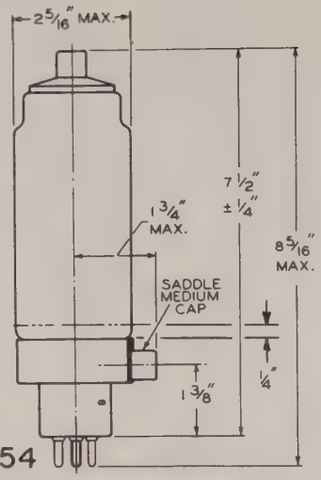

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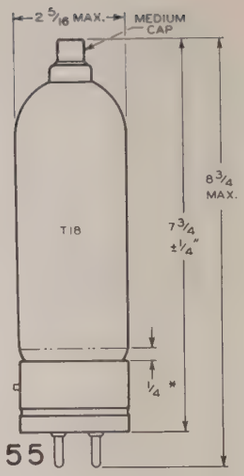

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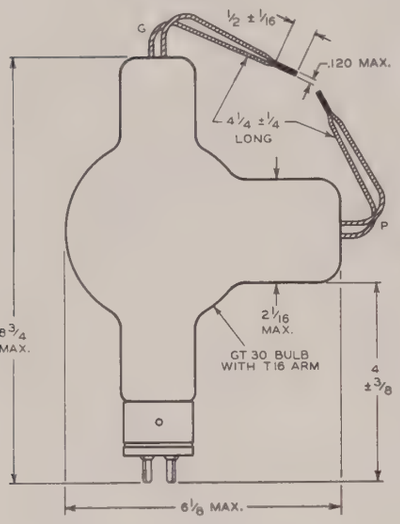

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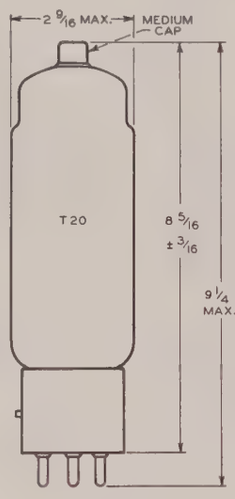

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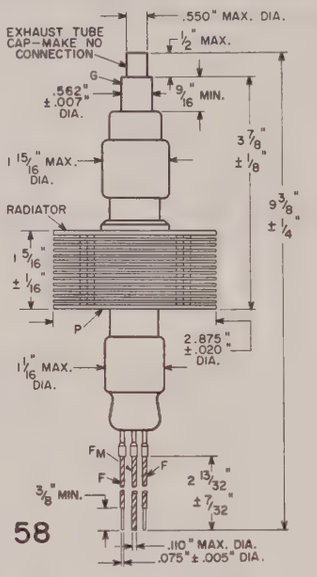

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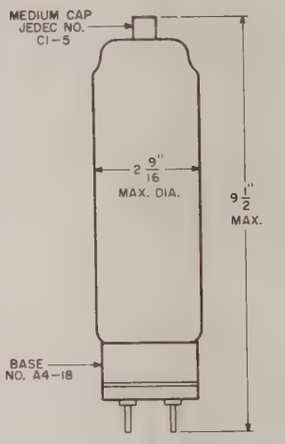

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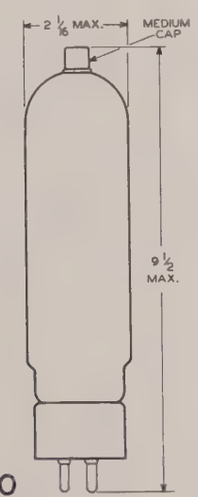

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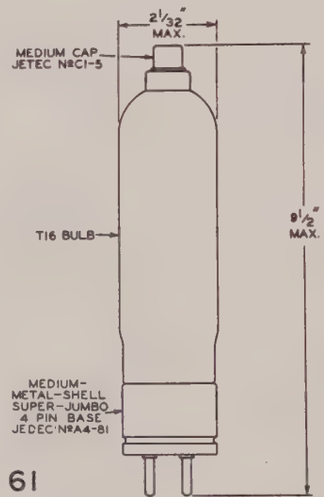

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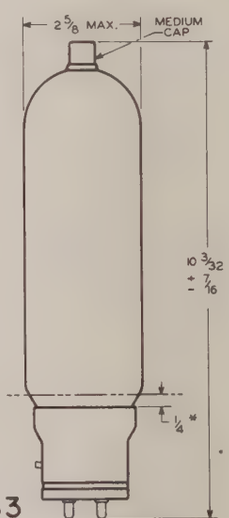

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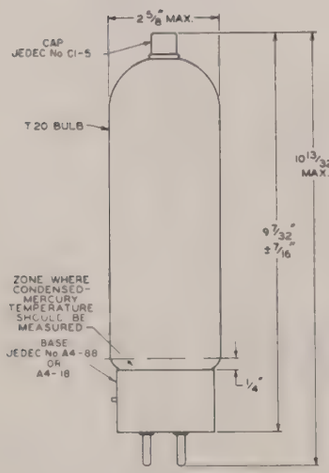

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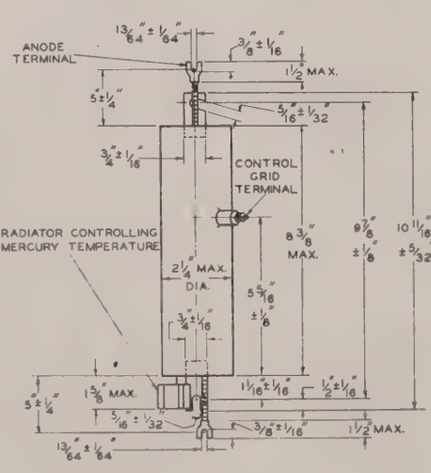

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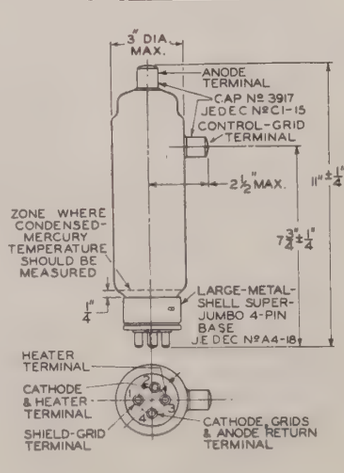

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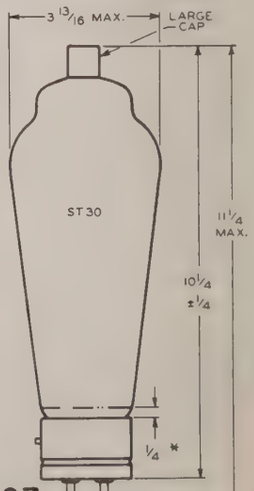

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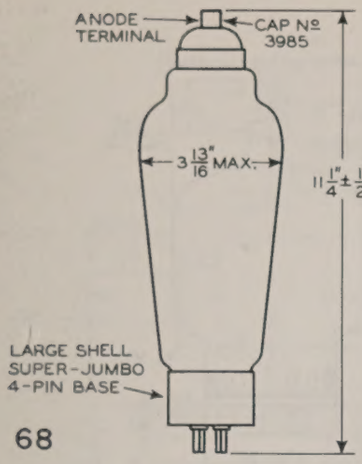
DIMENSIONAL OUTLINE



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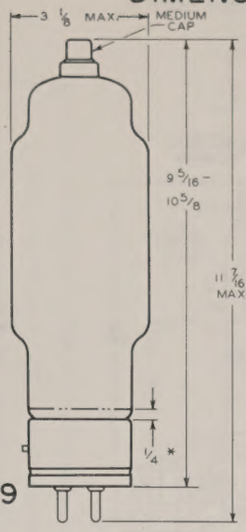

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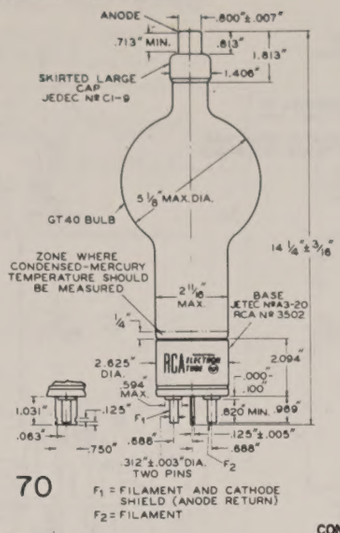

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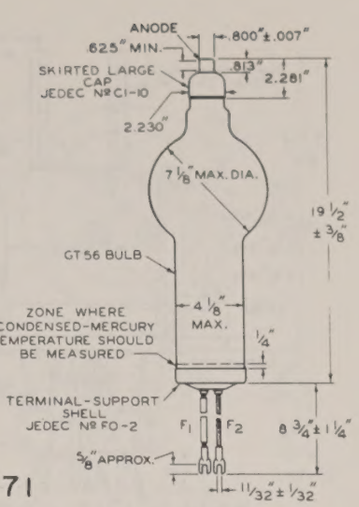

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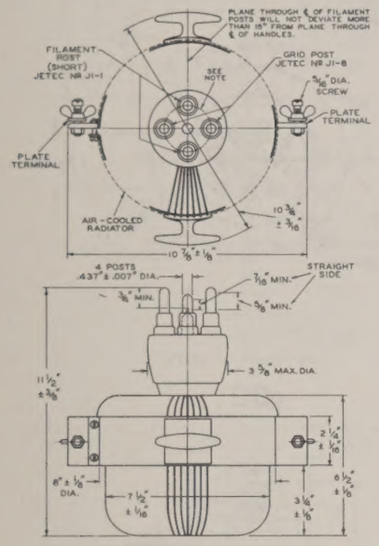
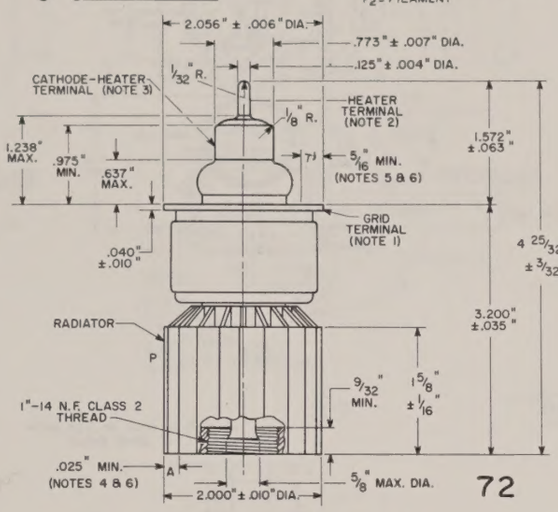

PLANE THROUGH ℄ OF FILAMENT POSTS WILL NOT DEVIATE MORE THAN 15° FROM PLANE THROUGH ℄ OF HANDLES.
FILAMENT POST (SHORT) JETEC Nº J1-1
SEE NOTE
GRID POST JETEC Nº J1-8
5/16" DIA. SCREW
PLATE TERMINAL
PLATE TERMINAL
AIR-COOLED RADIATOR
10 3/8" ± 3/16"
10 7/8" ± 1/8"
4 POSTS .437" ± .007" DIA.
7/16" MIN.
STRAIGHT SIDE
3/8" MIN.
5/8" MIN.
3 3/8" MAX. DIA.
11 1/2" ± 3/8"
2 1/4" ± 1/16"
6" ± 1/8" DIA.
7 1/2" ± 1/16"
6 1/2" ± 1/8"
3 1/4" ± 1/8"

71A



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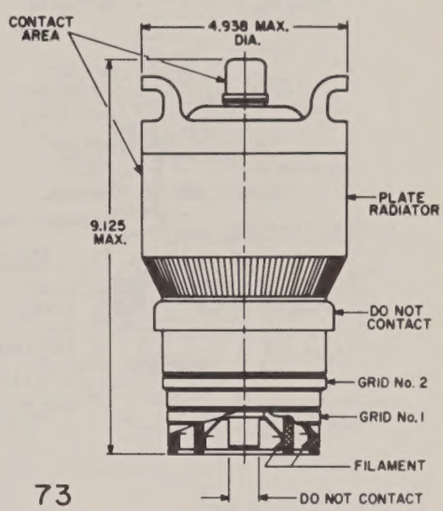

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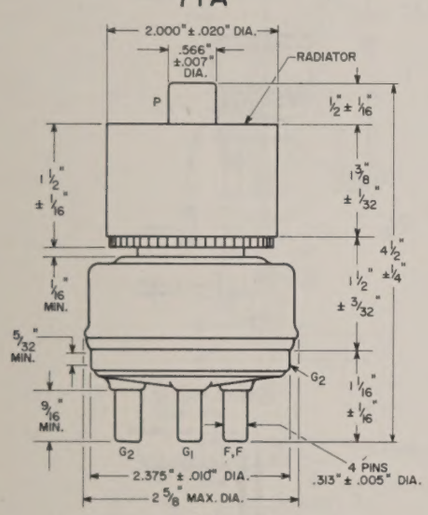

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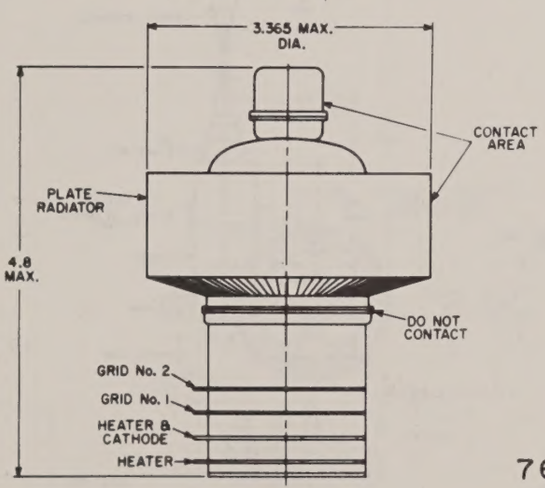

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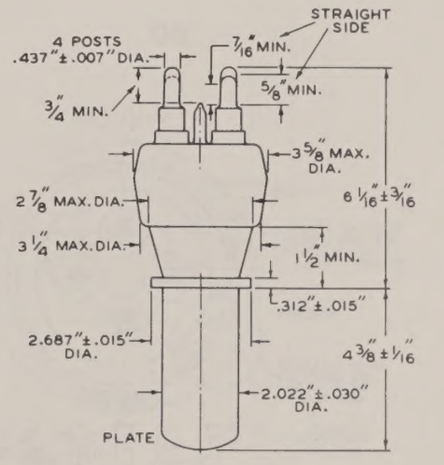

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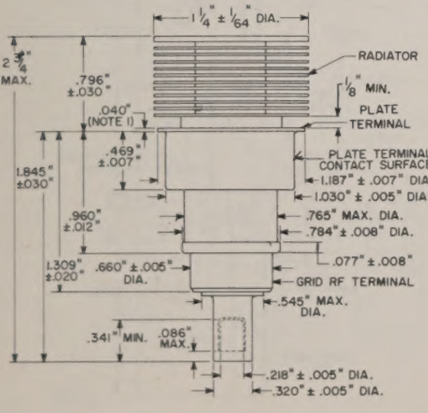

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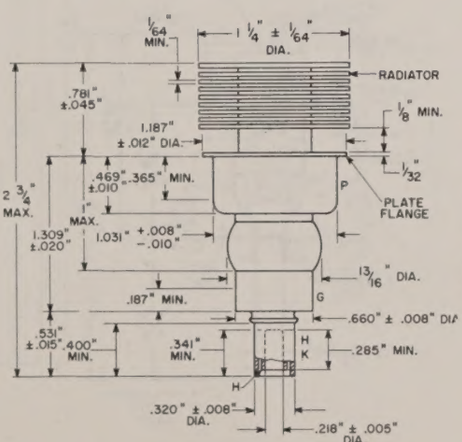

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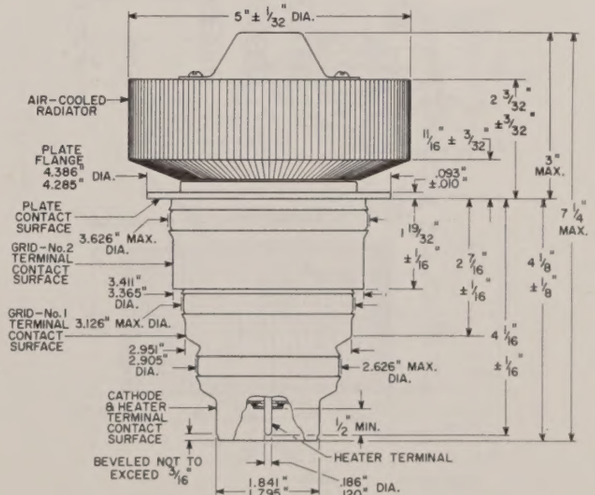

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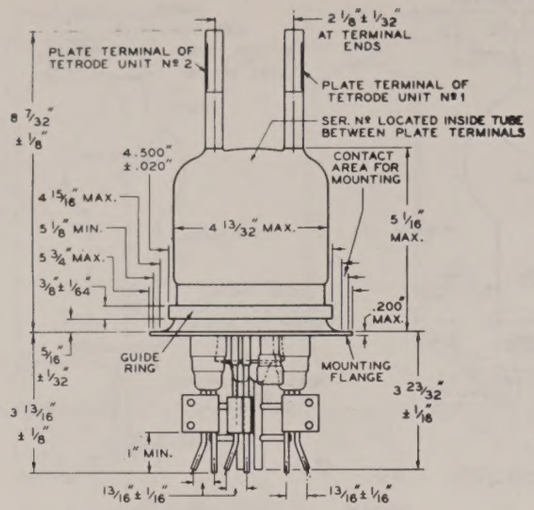
DIMENSIONAL OUTLINE



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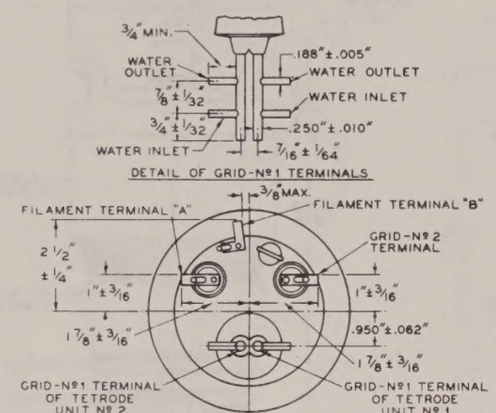

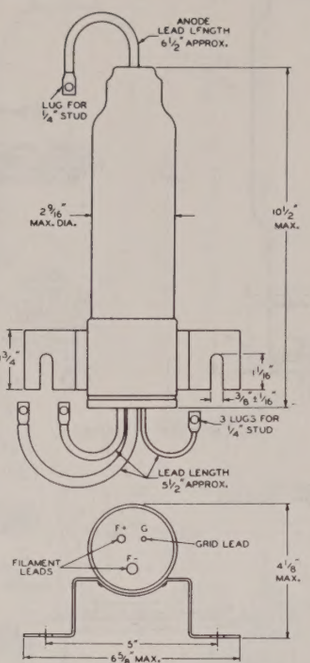

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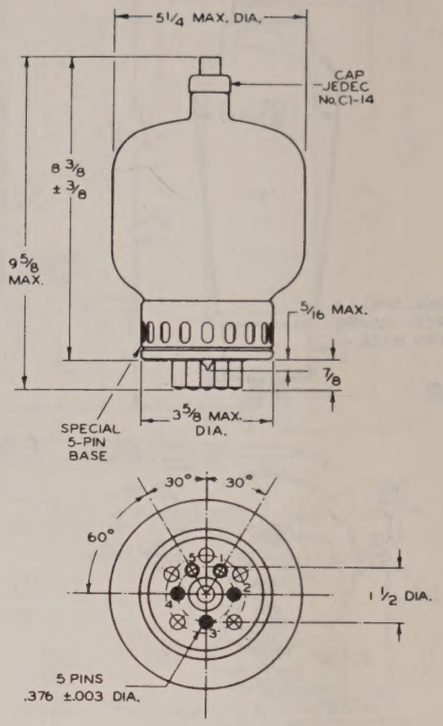

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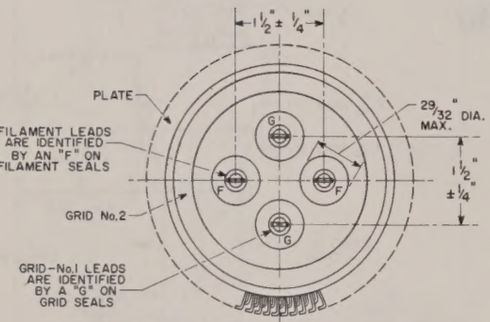
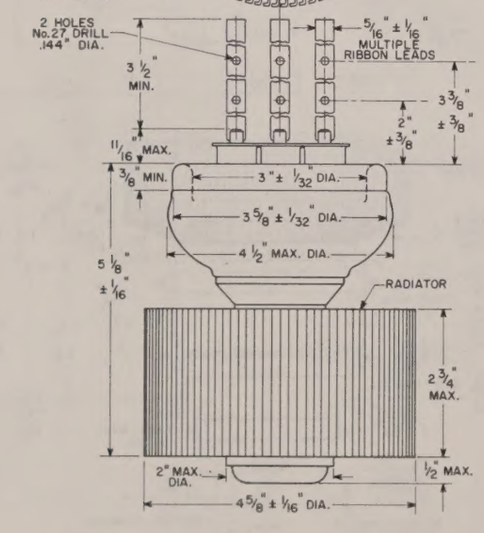

1 1/2" ± 1/4"
PLATE
29/32" DIA. MAX.
FILAMENT LEADS ARE IDENTIFIED BY AN "F" ON FILAMENT SEALS
1 1/2" ± 1/4"
GRID No.2
GRID-No.1 LEADS ARE IDENTIFIED BY A "G" ON GRID SEALS



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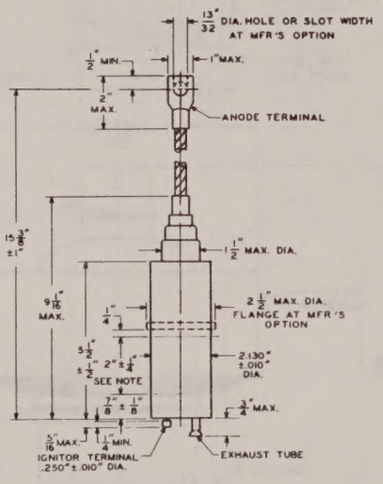

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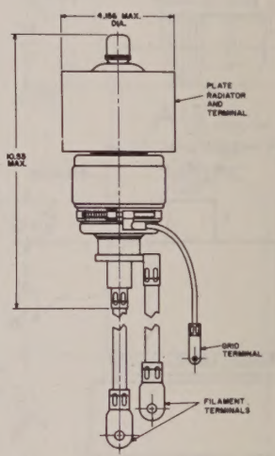

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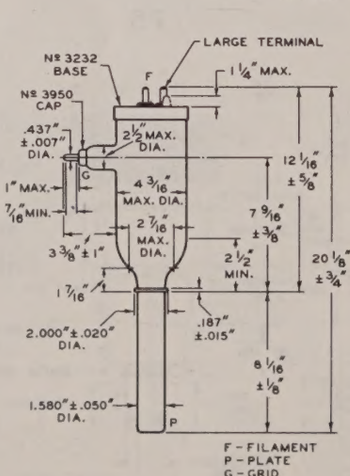
RCA-891



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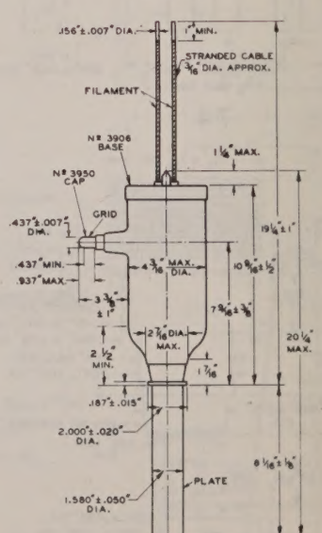
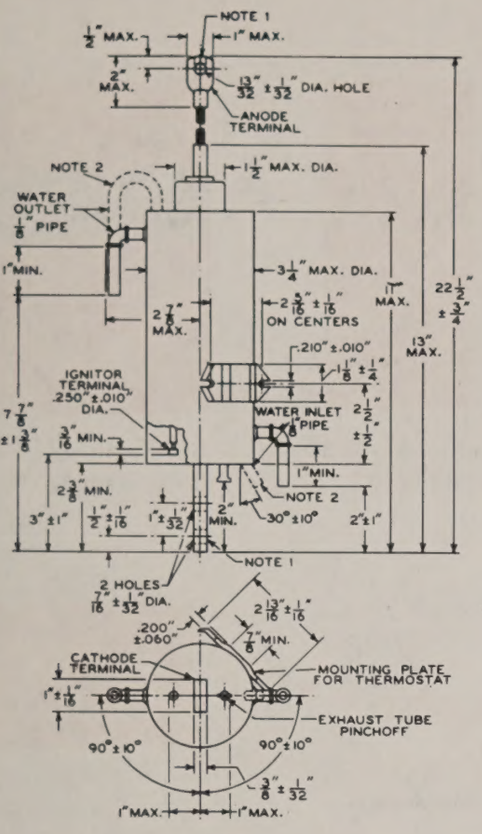


87

DIMENSIONAL OUTLINE



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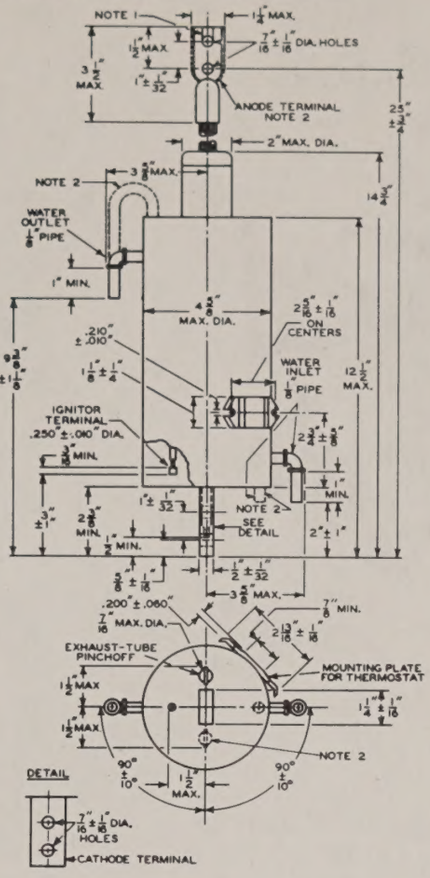

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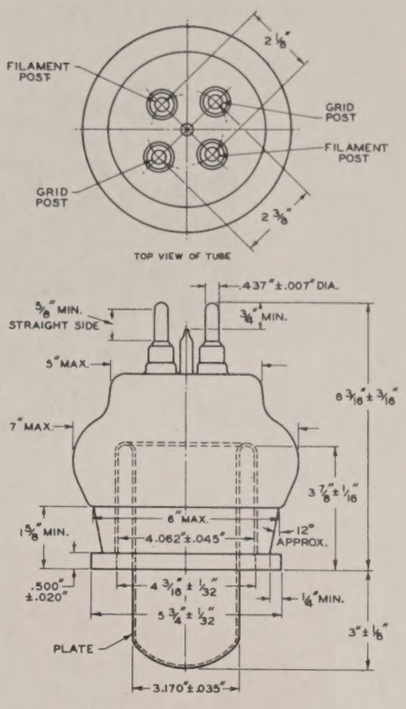

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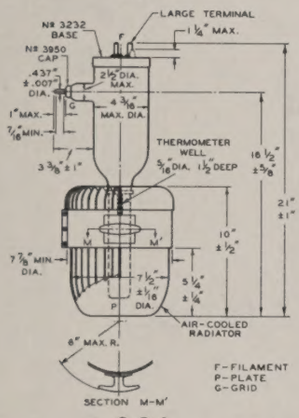

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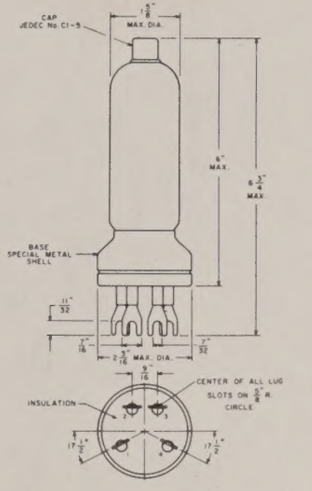

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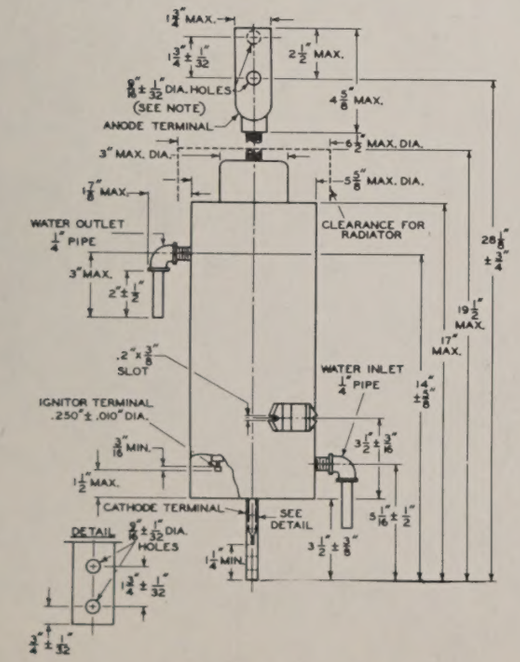

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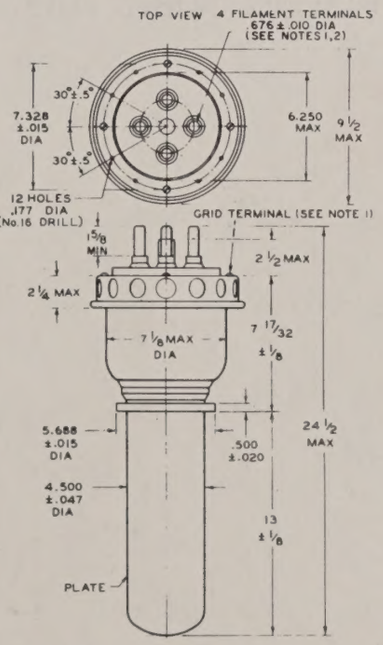

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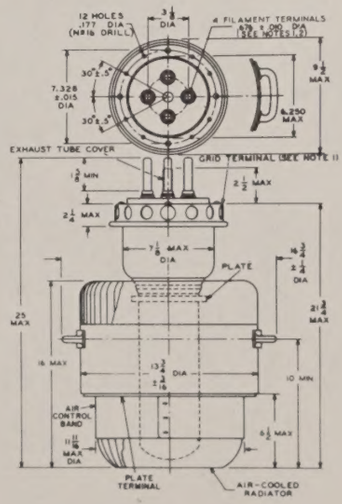

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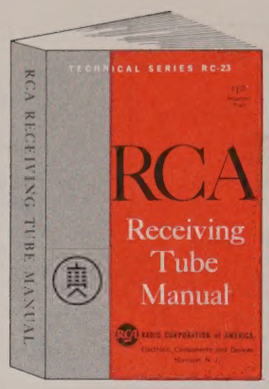
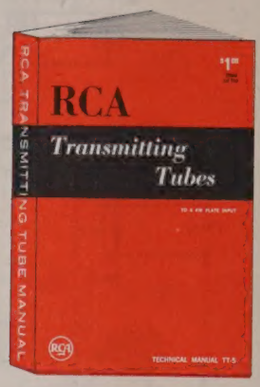
RCA TECHNICAL PUBLICATIONS

ELECTRON TUBE
HANDBOOK HB-3

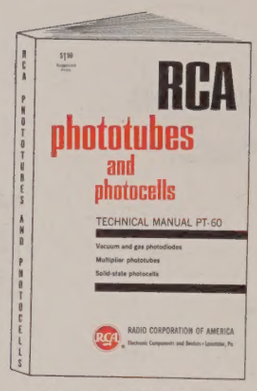
SEMICONDUCTOR
PRODUCTS
HANDBOOK HB-10



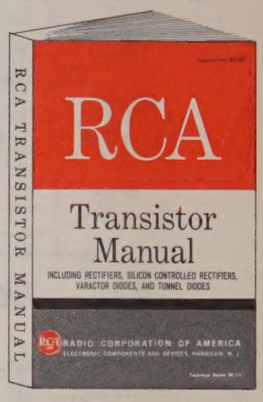
RCA RECEIVING TUBE
MANUAL RC-23



RCA TRANSMITTING
TUBE MANUAL TT-5



RCA PHOTOTUBE
MANUAL PT-60


RCA TRANSISTOR MANUAL
RCA
Transistor Manual
INCLUDING RECTIFIERS, SILICON CONTROLLED RECTIFIERS, VARACTOR DIODES, AND TUNNEL DIODES
RADIO CORPORATION OF AMERICA

RCA TRANSISTOR
MANUAL SC-11

RCA POWER TUBES ARE AVAILABLE FROM

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